DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER - WADE PARK

10701 EAST BLVD. CLEVELAND, OH. 44106

Improve Domestic Water System to Prevent Legionella

PROJECT NO. 541-16-101

Veterans Administration Medical Center

FIRST FLOOR (CONTINUED

DRAWING INDEX



Fredrick, Fredrick &

Mechanical & Electrical Engineers 672 East Royalton Road, Broadview Heights, Ohio 44147

Heller Engineers, Inc.

DESIGN CODE INFORMATION:

VA PLUMBING DESIGN GUIDE 2014 VHA DIRECTIVE 1061 **INTERNATIONAL BUILDING CODE 2015** NFPA 99 2015

P-1 P-2 P-3 P-4 P-5 P-6 P-7	PLUMBING LEGEND, SCHEDULES, DETAILS AND GENERAL NOTES ACC/MENTAL HEALTH DOMESTIC WATER RISER DIAGRAM CARES TOWER DOMESTIC WATER RISER DIAGRAM MAIN BUILDING (SUB-BASEMENT - 2ND FLOOR EAST) DOMESTIC WATER RISER DIAGRAM MAIN BUILDING (SUB-BASEMENT - 2ND FLOOR WEST) DOMESTIC WATER RISER DIAGRAM MAIN BUILDING (3RD - 6TH FLOOR) DOMESTIC WATER RISER DIAGRAM INFECTION CONTROL DETAILS AND NOTES
SUB-BASEM	MENT
SBD-CTN SBD-CTS SBD-NC SBD-NW SBD-SC SBD-SE SBD-SW SB-CTN SB-CTS SB-NC SB-NE SB-NE SB-NW SB-SC SB-SE SB-SW BASEMENT	PARTIAL LEVEL A PLUMBING DEMOLITION PLAN - CARES TOWER NORTH PARTIAL LEVEL A PLUMBING DEMOLITION PLAN - CARES TOWER SOUTH PARTIAL SUB-BASEMENT PLUMBING DEMOLITION PLAN - MAIN BUILDING NORTH CENTER PARTIAL SUB-BASEMENT PLUMBING DEMOLITION PLAN - MAIN BUILDING NORTHEAST PARTIAL SUB-BASEMENT PLUMBING DEMOLITION PLAN - MAIN BUILDING NORTHWEST PARTIAL SUB-BASEMENT PLUMBING DEMOLITION PLAN - MAIN BUILDING SOUTH CENTER PARTIAL SUB-BASEMENT PLUMBING DEMOLITION PLAN - MAIN BUILDING SOUTHEAST PARTIAL SUB-BASEMENT PLUMBING DEMOLITION PLAN - MAIN BUILDING SOUTHWEST PARTIAL LEVEL A PLUMBING PLAN - CARES TOWER NORTH PARTIAL LEVEL A PLUMBING PLAN - CARES TOWER SOUTH PARTIAL SUB-BASEMENT PLUMBING PLAN - MAIN BUILDING NORTH CENTER PARTIAL SUB-BASEMENT PLUMBING PLAN - MAIN BUILDING NORTHWEST PARTIAL SUB-BASEMENT PLUMBING PLAN - MAIN BUILDING SOUTH CENTER PARTIAL SUB-BASEMENT PLUMBING PLAN - MAIN BUILDING SOUTH CENTER PARTIAL SUB-BASEMENT PLUMBING PLAN - MAIN BUILDING SOUTH CENTER PARTIAL SUB-BASEMENT PLUMBING PLAN - MAIN BUILDING SOUTH CENTER PARTIAL SUB-BASEMENT PLUMBING PLAN - MAIN BUILDING SOUTHEAST PARTIAL SUB-BASEMENT PLUMBING PLAN - MAIN BUILDING SOUTHWEST
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1D-MB2/9	PARTIAL FIRST FLOOR PLUMBING DEMOLITION PLAN - M.B. BOILER PLANT
1D-MB3/9	PARTIAL FIRST FLOOR PLUMBING DEMOLITION PLAN - M.B. CANTEEN KITCHEN
1D-MB4/9	PARTIAL FIRST FLOOR PLUMBING DEMOLITION PLAN - M.B. WOMEN'S HEALTH AND POLICE
1D-MB5/9	PARTIAL FIRST FLOOR PLUMBING DEMOLITION PLAN - M.B. PCAS AND VET OFFICES
1D-MB6/9	PARTIAL FIRST FLOOR PLUMBING DEMOLITION PLAN - M.B. CHAPEL AREA
1D-MB7/9	PARTIAL FIRST FLOOR PLUMBING DEMOLITION PLAN - M.B. RETAIL LOBBY
1D-MB8/9	PARTIAL FIRST FLOOR PLUMBING DEMOLITION PLAN - M.B. ACS AND PCAS
1D-MB9/9	PARTIAL FIRST FLOOR PLUMBING DEMOLITION PLAN - M.B. PCAS AND PSYCH
1D-MH	PARTIAL FIRST FLOOR PLUMBING DEMOLITION PLAN - MENTAL HEALTH ADDITION
1D-MICU	PARTIAL FIRST FLOOR PLUMBING DEMOLITION PLAN - MICU ADDITION
1D-RAD	PARTIAL FIRST FLOOR PLUMBING DEMOLITION PLAN - RADIOLOGY ADDITION
1D-REA	PARTIAL FIRST FLOOR PLUMBING DEMOLITION PLAN - RESEARCH ADDITION
1D-SAE	PARTIAL FIRST FLOOR PLUMBING DEMOLITION PLAN - SURGERY ADDITION EAST
1D-SAW	PARTIAL FIRST FLOOR PLUMBING DEMOLITION PLAN - SURGERY ADDITION WEST
1-ACCN	PARTIAL FIRST FLOOR PLUMBING PLAN - ACC NORTH
1-ACCS	PARTIAL FIRST FLOOR PLUMBING PLAN - ACC SOUTH
1-CTN	PARTIAL FIRST FLOOR PLUMBING PLAN - CARES TOWER NORTH
1-CTS	PARTIAL FIRST FLOOR PLUMBING PLAN - CARES TOWER SOUTH
1-ECA	PARTIAL FIRST FLOOR PLUMBING PLAN - ENERGY CENTER ADDITION
1-LUA 1-LWH	PARTIAL FIRST FLOOR PLUMBING PLAN - LAB WAREHOUSE
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1-SAE	PARTIAL FIRST FLOOR PLUMBING PLAN - SURGERY ADDITION EAST
1-SAW	PARTIAL FIRST FLOOR PLUMBING PLAN - SURGERY ADDITION WEST
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2D-ACCS	PARTIAL SECOND FLOOR PLUMBING DEMOLITION PLAN - ACC SOUTH
2D-CTN	PARTIAL SECOND FLOOR PLUMBING DEMOLITION PLAN - CARES TOWER NORTH
2D-CTS	PARTIAL SECOND FLOOR PLUMBING DEMOLITION PLAN - CARES TOWER SOUTH
2D-MB1/7	PARTIAL SECOND FLOOR PLUMBING DEMOLITION PLAN - M.B. WEST PENTHOUSE
2D-MB2/7	PARTIAL SECOND FLOOR PLUMBING DEMOLITION PLAN - M.B. NORTHWEST
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THIRD FLOOR

PARTIAL THIRD FLOOR PLUMBING PLAN - MAIN BUILDING WEST

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SIXTH FLOOR

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PENTHOUSE

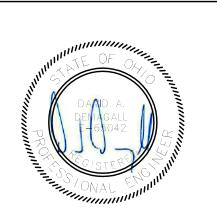
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FULLY SPRINKLERED

CONSULTANTS: BID ISSUE Date

VA FORM 08-6231, OCT 1978

DRICK, FREDRICK & HELLER ENGINEERS, INC. 672 EAST ROYALTON ROAD BROADVIEW HTS., OHIO 44147



ARCHITECT:

IMPROVE WATER COVER SHEET SYSTEM TO PREVENT

LEGIONELLA VAMC - WADE PARK

4/29/2016

DAD

JMC

Building Number MAIN CAMPUS rawing Number

X-1

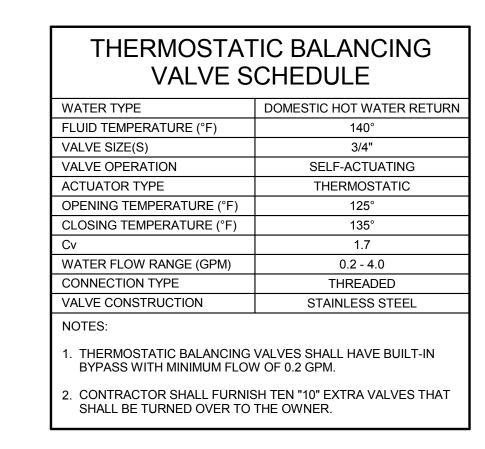
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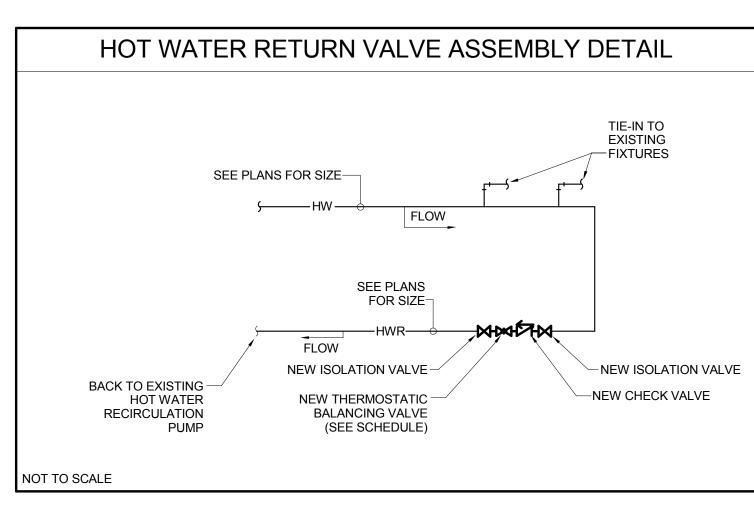
Department of Veterans Affairs

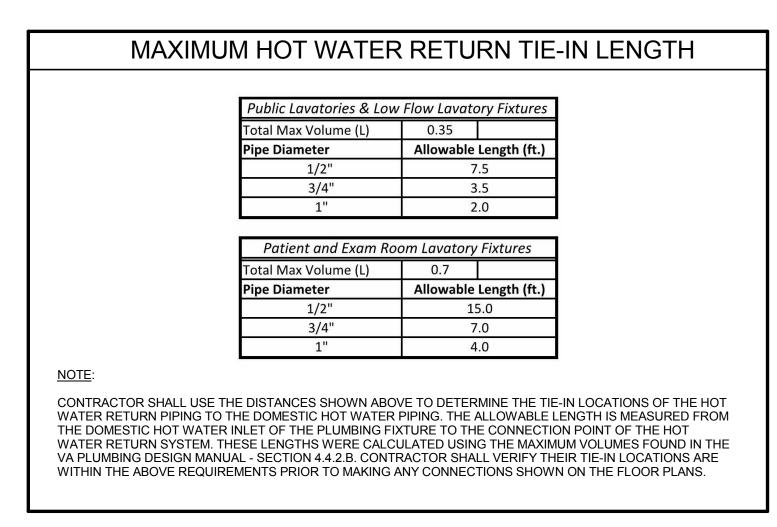
Office of

Facilities

Management







VA FORM 08-6231, OCT 1978

DEAD-LEG DEMOLITION DETAIL **EXISTING** - ACTIVE MAIN DRAIN, CAP AND LABEL AS 2 PIPE DIAMETERS 12" MINIMUM "ABANDONDED" (NOTE C) — - MAXIMUM (NOTE A) (NOTE B) — CAP-A. CUT DEAD-LEG PIPING AND CAP REMAINING PIPE A MAXIMUM OF 2 PIPE DIAMETERS FROM THE ACTIVE MAIN. INSULATE CAP ON ACTIVE PIPE. B. CONTRACTOR SHALL REMOVE AT LEAST 12" OF PIPING FROM LIMIT OF DEMOLITION SYMBOL. C. CONTRACTOR SHALL DRAIN, CAP AND LABEL REMAINING PIPING AS "ABOANDONED" WITHIN 3 FEET OF EACH END OF THE "DEAD-LEG" PIPE. D. CONTRACTOR TO VERIFY DEAD LEG PIPE IS NOT ACTIVE PRIOR TO REMOVING SECTION OF PIPE. NOT TO SCALE

CONTINUOUS MONITORING SENSORS

CHLORINE SENSOR

POTABLE WATER

23°F - 203°F

MULTI-PARAMETER ANALYZER

POTABLE WATER

23°F - 392°F

MONITORING DEVICE

TEMPERATURE RANGE (°F)

WATER TYPE

` '						
PARAMETERS MEASURED						
TEMPERATURE	YES	YES	YES			
CHLORINE (pH)	YES	YES	NO			
PRESSURE	YES	NO	NO			
CONDUCTIVITY	YES	NO	NO			
RESIDUAL OXIDANT	YES	NO	NO			
BMS CONNECTIVITY	MODBUS	MODBUS	CheckPoint			
ADDITIONAL INFORMATION	NOTE 1, 4, 5	NOTE 2, 4, 5	NOTE 3, 5			
POWER REQUIREMENTS	24 VDC	24 VDC	BATTERY			
 MULTI-PARAMETER ANALYZER SHALL HAVE: UP TO 4 SENSOR INPUTS, UP TO 8 CURRENT OUTPUTS, UP TO SIX ALARM/CONTROL RELAYS AND A COLOR DISPLAY. DATA ANALYZER SHALL BE CAPABLE OF ACCEPTING DIGITAL OR ANALOG SENSORS. CHLORINE SENSOR SHALL: HAVE 1" NPT THREADS ON BOTH ENDS, BE OF DIFFERENTIAL ELECTRODE TECHNIQUE DESIGN, HAVE HEX-SHAPED WRENCH FLATS, HAVE INTEGRCHANGABLE PRE-CALIBRATED PLUG-IN SENSOR HEADS AND HAVE INTERACTIVE COMMUNICATIONS WITH A HOST COMPUTER. 						
 TEMPERATURE SENSOR SHALL: COMMUNICATE WITH THE EXISTING CHECKPOINT WIRELESS MONITORING SYSTEM AND BE INSTALLED/MOUNTED ON THE EXTERIOR OF THE HOST PIPE. EACH OF THESE SENSORS SHALL BE PROVIDED WITH 24V POWER AND TIED INTO THE BMS. CONTRACTOR SHALL 						
ADD GRAFFIIGS TO DISPLA	AY ALL OUTPUT VALUES AND SET	-UF ALARIVI FUINTS.				

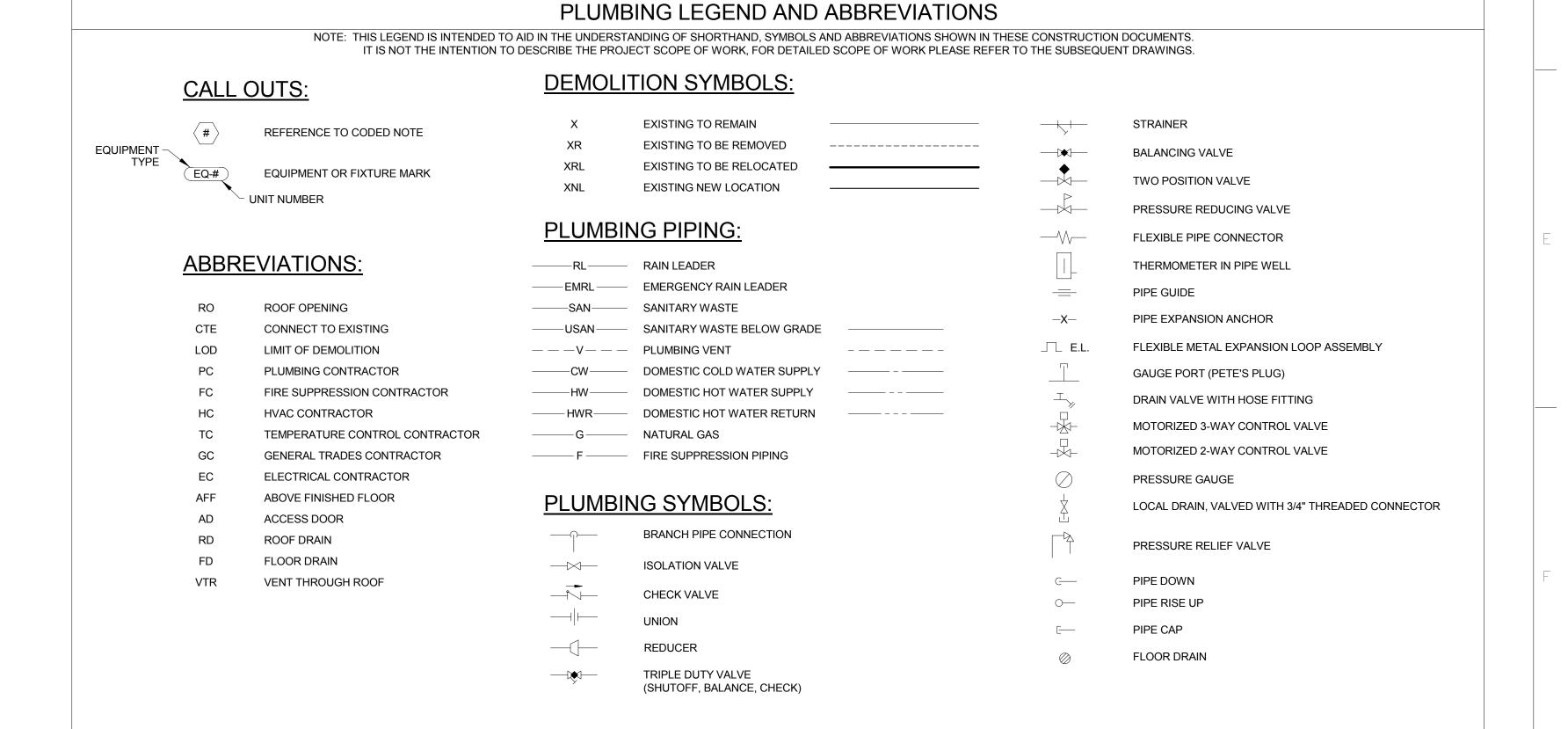
5. ALL SENSORS MUST BE INSTALLED IN ACCESSIBLE LOCATIONS AND TAGGED FOR IDENTIFICATION.

CONTRACTOR SCHEDULING NOTES:

- 1. THIS PROJECT WILL TAKE PLACE IN A FULLY FUNCTIONAL HEALTHCARE FACILITY WITH NO DEFINED PROJECT SCOPE AREA.
- 2. THE CONTRACTOR SHALL SCHEDULE ALL WORK AHEAD OF TIME PER THE SPECIFICATIONS AND PROVIDE THE COR WITH A 2-WEEK LOOK-AHEAD ON A WEEKLY BASIS.
- 3. ALL WORK SHALL FALL UNDER THREE CATEGORIES. AREAS WILL BE IDENTIFIED ON THE FLOOR PLANS.
- FIRST SHIFT: WORK SHALL BE COMPLETED BETWEEN THE HOURS OF 7AM-4PM. PATIENTS WILL TYPICALLY BE PRESENT IN THESE AREAS AND WORK WILL LIKELY NEED TO BE DONE IN A HEPA TENT OR CLASS-2 ENVIORNMENTAL CONTROLS WILL NEED TO BE SET-UP PER THE SPECIFICATIONS. CLASS-3 ENVIORNMENTAL CONTROLS WILL BE REQUIRED IN CRITICAL OR HIGH-RISK AREAS.
- SECOND SHIFT: WORK SHALL BE COMPLETED BETWEEN THE HOURS OF 4PM-5AM. CONTRACTOR SHALL NOT BEGIN WORK IN THESE AREAS UNTIL ALL EMPLOYEES HAVE LEFT FOR THE NIGHT OR THE CONTRACTOR RECEIVES VERBAL CONSENT BY THE DEPARTMENT HEAD TO BEGIN WORK. THE CONTRACTOR SHALL USE CLASS-2 ENVIORNMENTAL CONTROLS WHERE EMPLOYEES OR PATIENTS ARE PRESENT.
- FLOAT WORK: WORK SHALL BE COMPLETED WHEN AREAS IN FIRST OR SECOND SHIFT CANNOT BE ACCESSED OR WHEN CRITICAL SCHEDULING IS REQUIRED. THESE AREAS WILL TYPICALLY NOT BE OCCUPIED AND ENVIORNMENTAL CONTROLS SHALL BE AT THE DISCRETION OF THE COR. SOME AREAS ARE CRITICAL AND WILL REQUIRE THE USE OF A HEPA TENT OR CLASS-3 ENVIORNMENTAL CONTROLS. WORK IN CRITICAL AREAS SHALL BE CLOSELY COORDINATED WITH THE COR AND THE DEPARTMENT HEAD.
- 4. CONTRACTOR SHALL SCHEDULE ALL SHUTDOWNS AT LEAST 2-WEEKS IN ADVANCE.
- 5. IF AREAS ARE UNAVAILABLE; CONTRACTOR SHALL NOTIFY THE COR THAT SCHEDULED WORK CANNOT BE ACCOMPLISHED AND COORDINATE AN ALTERNATIVE TIME TO COMPLETE THE WORK.
- 6. CONTRACTOR SHALL HAVE 500 CALENDAR DAYS TO COMPLETE ALL WORK DEFINED IN THESE DOCUMENTS.
- 7. CONTRACTOR SHALL BE LIMITED TO FOUR (4) CREWS ON SITE AT ANY GIVEN TIME. CONTRACTOR SHALL COORDINATE SUPERVISION OF ALL CREWS WITH COR PRIOR TO STARTING WORK.

PLUMBING GENERAL NOTES:

- A. NOTIFY ENGINEER OF ANY CONDITIONS WHICH WILL NOT PERMIT THE WORK TO BE PERFORMED AS INDICATED ON THESE DRAWINGS.
- B. COORDINATE ALL SHUT-DOWNS OF EXISTING PLUMBING SYSTEMS WITH OWNER A MINIMUM OF FOURTEEN DAYS IN ADVANCE.
- C. PRIOR TO INSTALLATION, VERIFY PRECISE LOCATION OF NEW WALL MOUNTED DEVICES WITH OWNER AND
- D. PROVIDE MANUFACTURER RECOMMENDED SERVICE CLEARANCE FOR ALL PLUMBING EQUIPMENT.
- E. NEW PIPING SHALL NOT BE ROUTED ABOVE ELECTRICAL PANELS. REFER TO ELECTRICAL DRAWINGS FOR
- F. DEMOLITION OF PLUMBING FIXTURES SHALL INCLUDE ASSOCIATED VALVES, PIPING, INSULATION, HANGERS, CARRIERS, ETC. BACK TO ACTIVE MAINS AND CAPPED. INCLUDE REMOVAL AND REPLACEMENT OF CEILINGS AND CUTTING AND PATCHING OF WALLS AND FLOORS. FILL AND PATCH ALL OPENINGS CREATED BY THE REMOVAL OF FIXTURES AND PIPING TO MATCH SURROUNDING SURFACES.
- G. WHERE WORK IS SHOWN ABOVE EXISTING CEILINGS THE CONTRACTOR SHALL REMOVE AND REPLACE EXISTING CEILINGS AS REQUIRED TO PERFORM ALL WORK DESCRIBED.
- H. DO NOT USE AERATORS ON LAVATORIES OR SINKS.
- MINIMIZE LENGTH OF DEAD LEGS TO TWO (2) PIPE DIAMETERS OR LESS.



NEW PIPING - FLUSHING NOTE:

AFTER THE INSTALLATION AND FINAL CONNECTION OF NEW DOMESTIC WATER PIPING, THE CONTRACTOR

SHALL FLUSH ALL NEW PIPING AND DOWNSTREAM FIXTURES PER THE SPECIFICATIONS. SEE SECTION 220511

INFECTION CONTROLS NOTE:

THE CONTRACTOR SHALL USE THE APPROPRIATE INFECTION CONTROL METHODS DEPENDING ON THE

AND REFER TO SPECIFICATIONS FOR FULL REQUIREMENTS.

STARTING CONSTRUCTION.

HEMO-ONCOLOGY

PHARMACY EXPANSION RADIOLOGY NORTH

PROJECTS UNDER CONSTRUCTION:

SURGERY ADDITION MINOR - 541-364

RESEARCH NORTH - 541-13-104

RENOVATE AND EXPAND ENDOSCOPY - 541-16-107

RENOVATE INPATIENT SCI SUITE - 541-16-106

TYPE OF SPACE THEY ARE WORKING IN. SEE SHEET P-7 FOR TYPICAL SPACE INFECTION CONTROL NOTES

CONSTRUCTION PROJECT NOTES:

DESIGNED AT THE VA WADE PARK FACILITY. THESE PROJECTS MAY CONFLICT WITH WORK BEING SHOWN ON

THESE DRAWINGS. CONTRACTOR SHALL COORDINATE WORK IN THESE AREAS WITH THE VA COR PRIOR TO

THE FOLLOWING IS A LIST OF PROJECTS THAT ARE CURRENTLY UNDER CONSTRUCTION OR BEING

RENOVATE AMBULATORY CARE MEDICAL AND SPECIALTY CLINICS - 541-15-102

EXPAND AND RENOVATE NUCLEAR MEDICINE AND RADIOLOGY - 541-15-101

ENHANCE & CONSOLODATE MENTAL HEALTH SERVICES - 541-16-104

ENHANCE MEDICAL, SPECIALTY CARE & ADMINISTRATION SERVICES - 541-15-101

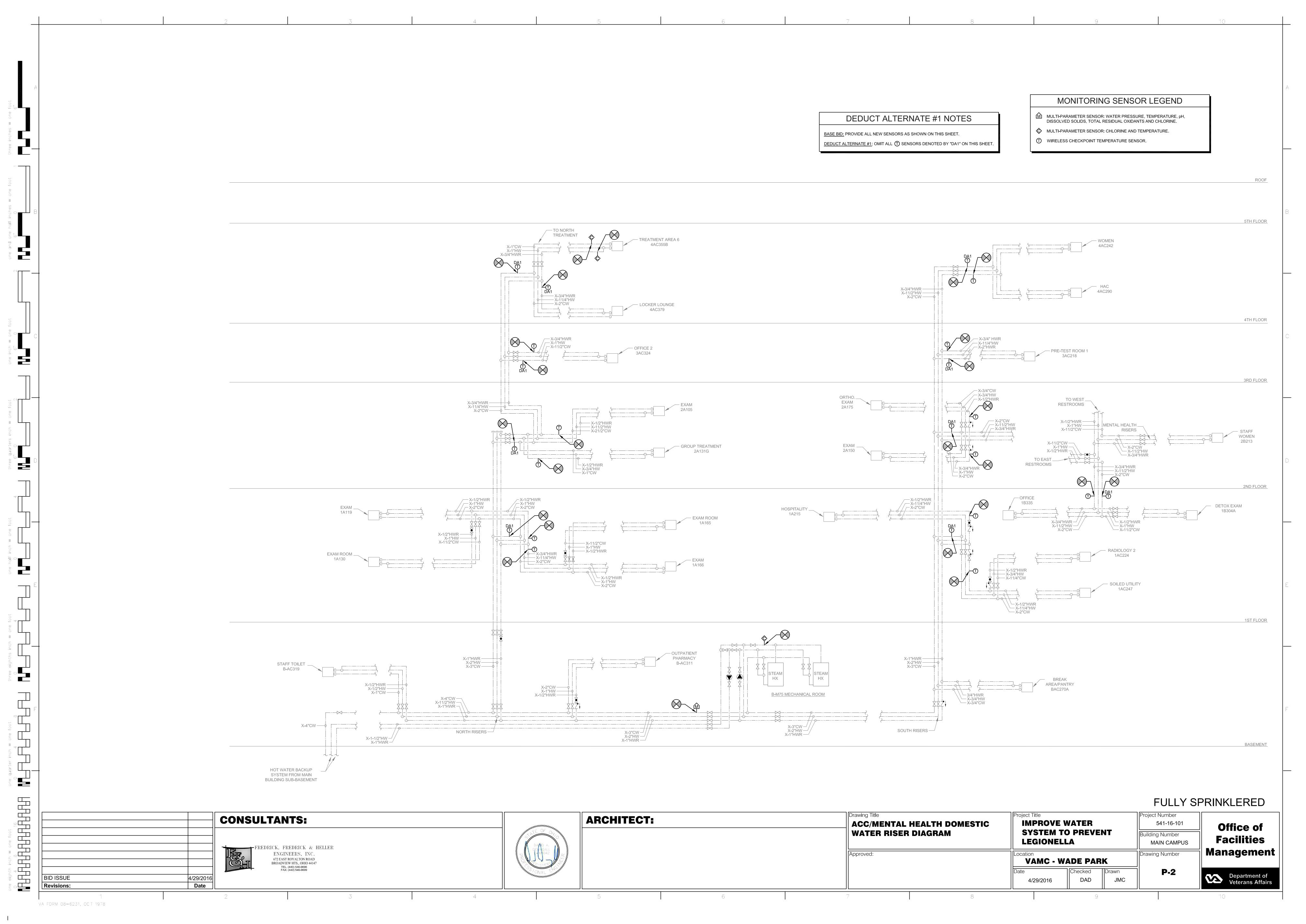
FULLY SPRINKLERED

Drawing Title Project Title Project Number **CONSULTANTS: ARCHITECT: IMPROVE WATER** PLUMBING LEGEND, SCHEDULES, 541-16-101 Office of **DETAILS AND GENERAL NOTES SYSTEM TO PREVENT** Building Number **Facilities LEGIONELLA** MAIN CAMPUS REDRICK, FREDRICK & HELLER Management Drawing Number ENGINEERS, INC. Approved: 672 EAST ROYALTON ROAD **VAMC - WADE PARK** BROADVIEW HTS., OHIO 44147 TEL. (440) 546-9696 FAX: (440) 546-9699 P-1 Drawn BID ISSUE 4/29/2016 Veterans Affairs DAD JMC 4/29/2016 Date

WIRELESS TEMPERATURE

POTABLE WATER

23°F - 203°F



ROOF X-2"CW — TO PENTHOUSE EQUIPMENT PENTHOUSE X-3/4"HWR X-11/4"HW X-2"CW X-1/2"HWR — X-3/4"HW — X-11/2"CW — TO WEST X-2"CW X-11/4"HW PATIENT ROOMS X-3/4"HWR 6TH FLOOR X-1/2"HWR — X-3/4"HW — X-11/2"CW — TRASH COLLECT — 5F191 X-11/2"HWR ——— X-21/2"HW ——— X-3"CW —— ф—— X-2"СW 5TH FLOOR X-1/2"HWR — X-3/4"HW — X-11/2"CW — TRASH COLLECT -4TH FLOOR X-1/2"HWR — X-3/4"HW — X-11/2"CW — TRASH COLLECT — 2ND FLOOR 1ST FLOOR FIXTURES FED FROM BELOW 1ST FLOOR BASEMENT ф—— X-2"СW SYSTEM FROM MAIN BUILDING SUB-BASEMENT GAS HX & STORAGE GAS HX & STORAGE TANK 500 GALLONS 140°F AF-193 MECHANICAL ROOM 500 GALLONS X-6" DCW 140°F BF-192 MECHANICAL ROOM Drawing Title **ARCHITECT:** CARES TOWER DOMESTIC WATER RISER DIAGRAM

DEDUCT ALTERNATE #1 NOTES

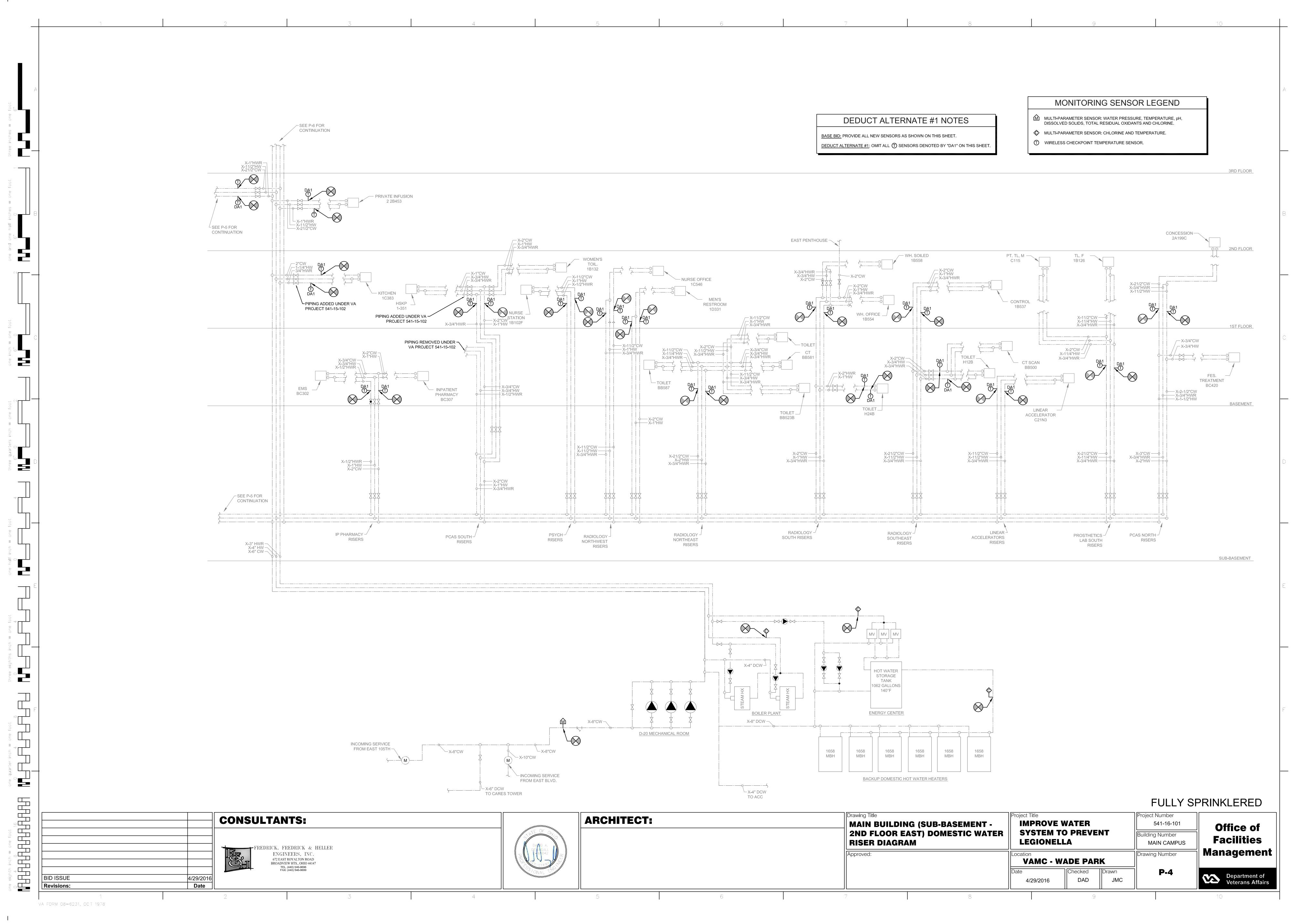
BASE BID: PROVIDE ALL NEW SENSORS AS SHOWN ON THIS SHEET. DEDUCT ALTERNATE #1: OMIT ALL ① SENSORS DENOTED BY "DA1" ON THIS SHEET.

MONITORING SENSOR LEGEND

- MULTI-PARAMETER SENSOR: WATER PRESSURE, TEMPERATURE, pH, DISSOLVED SOLIDS, TOTAL RESIDUAL OXIDANTS AND CHLORINE.
- MULTI-PARAMETER SENSOR: CHLORINE AND TEMPERATURE.
- WIRELESS CHECKPOINT TEMPERATURE SENSOR.

FULLY SPRINKLERED

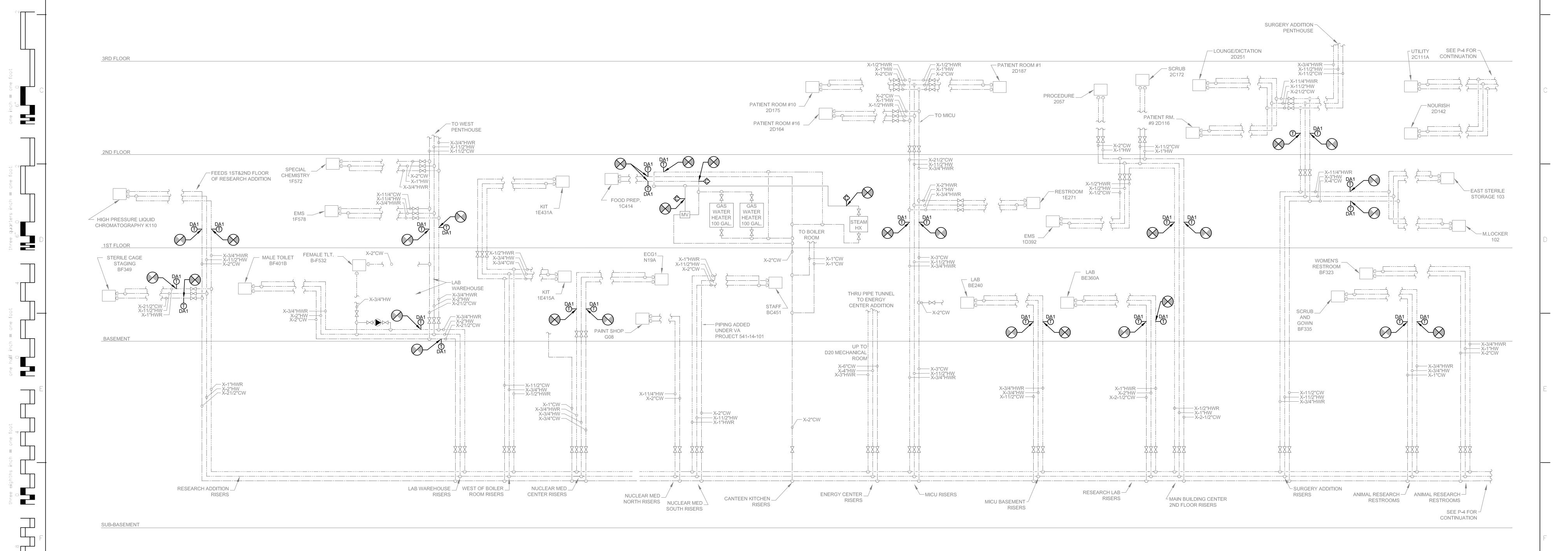
Project Title Project Number **CONSULTANTS: IMPROVE WATER** 541-16-101 Office of **SYSTEM TO PREVENT** Building Number **Facilities LEGIONELLA** MAIN CAMPUS -FREDRICK, FREDRICK & HELLER Management ENGINEERS, INC. 672 EAST ROYALTON ROAD BROADVIEW HTS., OHIO 44147 TEL. (440) 546-9696 FAX: (440) 546-9699 Drawing Number Approved: **VAMC - WADE PARK** Department of Veterans Affairs BID ISSUE 4/29/2016 **Date** DAD JMC 4/29/2016 Revisions:



DEDUCT ALTERNATE #1 NOTES

BASE BID: PROVIDE ALL NEW SENSORS AS SHOWN ON THIS SHEET. DEDUCT ALTERNATE #1: OMIT ALL ① SENSORS DENOTED BY "DA1" ON THIS SHEET. MONITORING SENSOR LEGEND

- MULTI-PARAMETER SENSOR: WATER PRESSURE, TEMPERATURE, pH, DISSOLVED SOLIDS, TOTAL RESIDUAL OXIDANTS AND CHLORINE.
- MULTI-PARAMETER SENSOR: CHLORINE AND TEMPERATURE.
- WIRELESS CHECKPOINT TEMPERATURE SENSOR.



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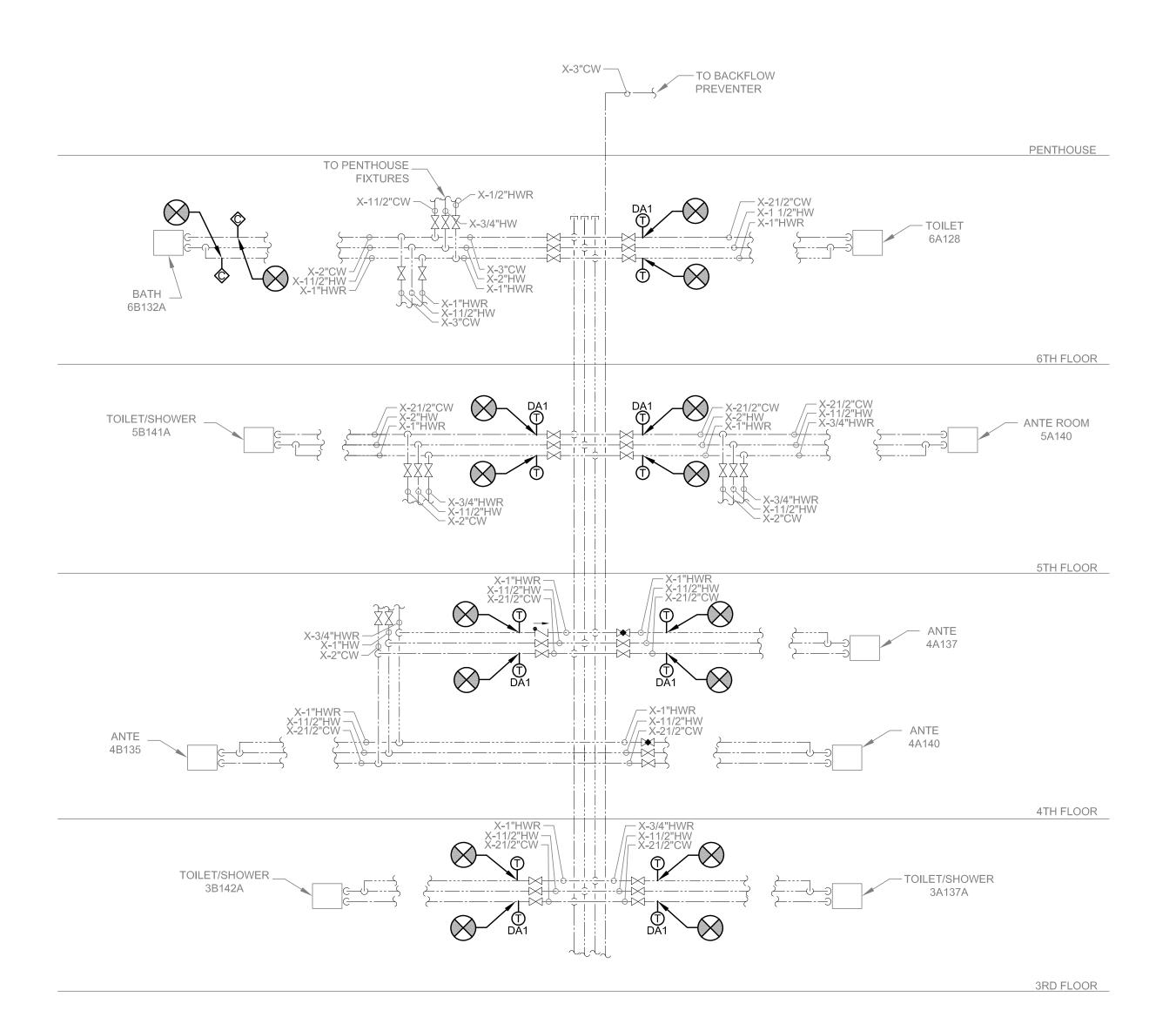
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		CONSULTANTS:	AND THE PROPERTY OF THE PARTY O	ARCHITECT:	Drawing Title MAIN BUILDING (SUB-BASEMENT -	Project Title IMPROVE WATER	Project Number 541-16-101	Office of
one toot		FREDRICK, FREDRICK & HELLER	DAND A.		2ND FLOOR WEST) DOMESTIC WATER RISER DIAGRAM	SYSTEM TO PREVENT LEGIONELLA	Building Number MAIN CAMPUS	Facilities
		ENGINEERS, INC. 672 EAST ROYALTON ROAD BROADVIEW HTS., OHIO 44147	DENAGALL F-65042		Approved:	Location VAMC - WADE PARK	Drawing Number	Management
one eighth	BID ISSUE	TEL. (440) 546-9696 FAX: (440) 546-9699	ELLONAL CONTRACTOR OF THE PROPERTY OF THE PROP			Date Checked Drawn 4/29/2016 DAD JMC	P-5	Department of Veterans Affairs
	1	2 3	4	5 6	7 8	9		10

DEDUCT ALTERNATE #1 NOTES

BASE BID: PROVIDE ALL NEW SENSORS AS SHOWN ON THIS SHEET. DEDUCT ALTERNATE #1: OMIT ALL ① SENSORS DENOTED BY "DA1" ON THIS SHEET.

MONITORING SENSOR LEGEND

- MULTI-PARAMETER SENSOR: WATER PRESSURE, TEMPERATURE, pH, DISSOLVED SOLIDS, TOTAL RESIDUAL OXIDANTS AND CHLORINE.
- MULTI-PARAMETER SENSOR: CHLORINE AND TEMPERATURE.
- T WIRELESS CHECKPOINT TEMPERATURE SENSOR.



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		CONSULTANTS:			William Control of the Control of th	ARCHITECT:			LDING (3RD - 7TH FLOOR)				Project Number 541-16-101	Office of
one foot		FREDRICK, FREDRICK & HELLE	.B		DAND A.			DOMESTIC	C WATER RISER DIAGRAM	SYSTEM T LEGIONEL		NT	Building Number MAIN CAMPUS	Facilities
		ENGINEERS, INC. 672 EAST ROYALTON ROAD BROADVIEW HTS., OHIO 44147			DENAGALL T-65042			Approved:		Location VAMC - W	ADE PARI	K	Drawing Number	Management
eighth	BID ISSUE 4/29/2016 Revisions: Date	TEL. (440) 546-9696 FAX: (440) 546-9699			THE ONAL STATES					Date 4/29/2016	Checked DAD	Drawn JMC	P-6	Department of Veterans Affairs
	1 1 VA FORM 08 6231 OCT 1078	2	3	4		5	6	7	8		9	<u> </u>		10

GENERAL INFECTION CONTROL NOTES

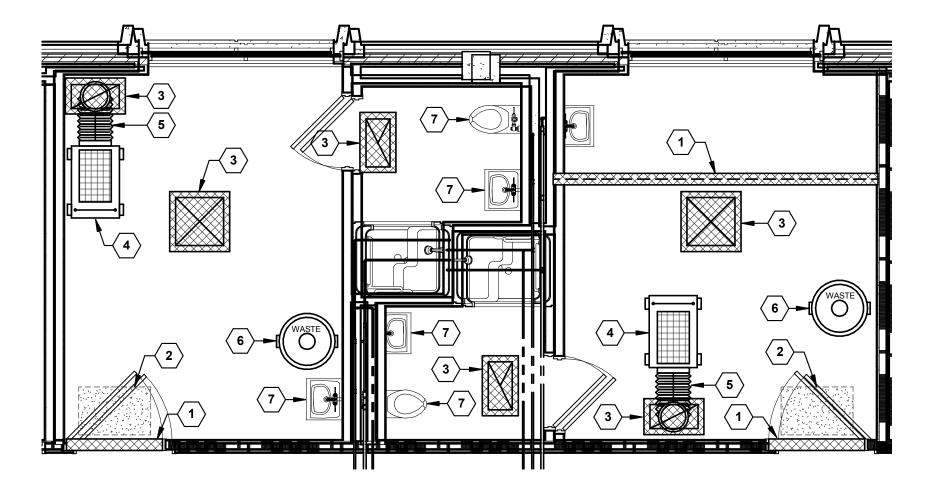
- REFER TO SPECIFICATION SECTION 01 35 26 'SAFETY REQUIREMENTS' FOR ADDITIONAL INFORMATION ON
- MOST AREAS IN THIS PROJECT WILL REQUIRE CLASS-2 INFECTION CONTROL. CONSULT COR FOR AREAS WITH SPECIAL REQUIREMENTS.
- SUBMIT INFECTION CONTROL PLAN FOR CRITICAL AREAS TO VA FOR APPROVAL, PRIOR TO BEGINNING WORK.
- D. CONTRACTOR SHALL PROVIDE ANY ADDITIONAL PROTECTION AS REQUESTED BY THE DEPARTMENT THEY ARE
- CRITICAL AND HIGH RISK AREAS WILL REQUIRE CLASS-3 INFECTION CONTROL MEASURES. THESE INCLUDE OPERATING ROOMS, TRANSPLANT WARDS, AND AREAS WHERE PATIENTS HAVE COMPROMISED IMMUNE

TYPICAL CLASS-2 PATIENT AREA NOTES

- \langle 1 \rangle CONTRACTOR SHALL SET UP NECESSARY CRITICAL BARRIERS. CLOSE DOOR AND TAPE FRAME TO PREVENT AIR FROM ESCAPING WORK SPACE. CONTRACTOR MAY INSTALL TEMPORARY ZIP-WALL TO PROTECT REMAINDER OF ROOM IF SPACE IS LARGE. CONTRACTOR SHALL PROVIDE SIGNAGE INDICATING THAT THE SPACE IS UNDER
- \langle **2** \rangle CONTRACTOR SHALL PROVIDE WALK-OFF MAT AT ENTRANCE OF CONSTRUCTION AREA.

CONSTRUCTION.

- \langle 3 \rangle ISOLATE HVAC SYSTEM IN SPACE(S) WHERE WORK IS BEING DONE. CONTRACTOR SHALL COVER ALL DIFFUSERS AND GRILLES AND SEAL AIR-TIGHT. COORDINATE SHUTDOWN OF VAV-BOX IF CONSTRUCTION AREA IS SERVED BY A SINGLE UNIT. THIS UNIT SHALL REMAIN OPERATIONAL CONTINUOUSLY DURING CONSTRUCTION.
- \langle f 4 angle CONRACTOR SHALL UTILIZE AIR-SCRUBBER WITH HEPA FILTRATION TEMPORARILY DUCTED TO A RETURN/EXHAUST AIR GRILLE TO MAINTAIN 0.01"WG OF NEGATIVE AIR PRESSURE WITHIN ROOM DURING
- \langle 5 \rangle PROVIDE TRANSITION SIZED TO MATCH RETURN/EXHAUST GRILLE AND TRANSITION TO ROUND. PROVIDE FLEXIBLE DUCT FROM PORTABLE AIR SCRUBBER OUTLET TO RETURN/EXHAUST GRILLE.
- ALL CONSTRUCTION WASTE SHALL BE PUT INTO A PORTABLE CONTAINER AND SEALED TIGHTLY BEFORE EXITING WORK AREA. (7) COVER AND PROTECT ANY EXISTING FIXTURES, FURNITURE OR EQUIPMENT IN WORK SPACE.
- A. CONTRACTOR SHALL OBTAIN PERMISSION FROM COR AND DEPARTMENT HEAD AND PRESENT CLASS-2
- ENVIORNMENTAL CONTROL METHOD FOR APPROVAL PRIOR TO STARTING WORK. B. CONTRACTOR SHALL NOT BEGIN WORK UNTIL ROOM IS COMPLETELY VACATED OF ALL PATIENTS.
- UPON COMPLETION OF WORK CONTRACTOR SHALL: VACUUM WORK AREA WITH HEPA FILTERED VACCUMS, WET MOP FLOORS AND WIPE ALL HARD SURFACES WITH CLEANER/DISINFECTANT, RESTORE HVAC SYSTEM TO ORIGINAL STATE AND REMOVE ALL CONSTRUCTION BARRIERS. CONTRACTOR SHALL ALSO NOTIFY COR AND DEPARTMENT HEAD OF COMPLETION OF WORK.
- SPACES THAT FALL UNDER THIS CATEGORY INCLUDE: PATIENT ROOMS, EXAM ROOMS, PROCEDURE ROOMS, OFFICES, STORAGE AREAS, LAB AREAS, AND RESTROOMS. CRITICAL AREAS MAY ALSO FALL UNDER THIS CATEGORY, BUT CONTRACTOR SHALL RECEIVE APPROVAL FROM INFECTIOUS CONTROL PRIOR TO WORKING IN CRITICAL AREAS.



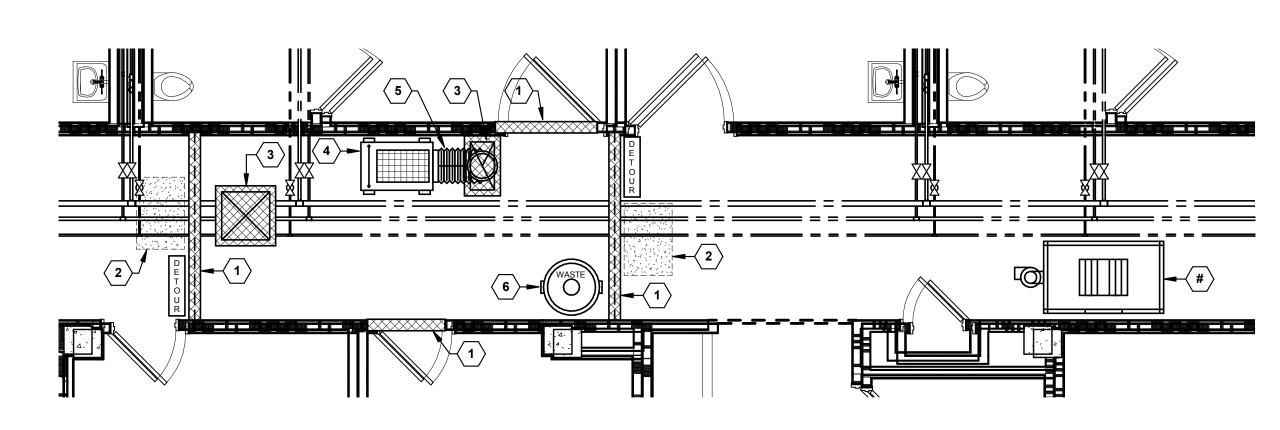
TYPICAL CLASS-2 PATIENT AREA NOTES

TYPICAL CLASS-2 HIGH TRAFFIC AREA NOTES

- \langle # \rangle IN HIGH TRAFFIC AREAS WHERE TEMPORARY BARRIERS ARE NOT PERMITTED:CONTRACTOR SHALL UTILIZE A HEPA-TENT, OR SIMILAR PRODUCT, TO ACCESS AREAS ABOVE THE CEILING. SEE SPECIFICATIONS FOR HEPA-TENT REQUIREMENTS.
- \langle $_{f 1}$ angle IN AREAS WHERE TEMPORARY BARRIERS ARE PERMITTED: CONTRACTOR SHALL SET UP NECESSARY CRITICAL BARRIERS. CLOSE DOOR(S) AND TAPE FRAME(S) TO PREVENT AIR FROM ESCAPING WORK SPACE. CONTRACTOR SHALL INSTALL TEMPORARY ZIP-WALL(S) TO PROTECT SURROUNDING AREAS. CONTRACTOR SHALL PROVIDE SIGNAGE INDICATING THAT THE SPACE IS UNDER CONSTRUCTION AND PROVIDE DETOUR DIRECTIONS.
- \langle 2 angle Contractor shall provide walk-off mat at entrance(s) of construction area.

OPERATIONAL CONTINUOUSLY DURING CONSTRUCTION.

- \langle $_3$ angle IN AREAS WHERE TEMPORARY BARRIERS ARE PERMITTED: ISOLATE HVAC SYSTEM IN SPACE(S) WHERE WORK IS BEING DONE. CONTRACTOR SHALL COVER ALL DIFFUSERS AND GRILLES AND SEAL AIR-TIGHT. COORDINATE SHUTDOWN OF VAV-BOX IF CONSTRUCTION AREA IS SERVED BY A SINGLE UNIT. THIS UNIT SHALL REMAIN
- \langle **4** \rangle IN AREAS WHERE TEMPORARY BARRIERS ARE PERMITTED: CONRACTOR SHALL UTILIZE AIR-SCRUBBER WITH HEPA FILTRATION TEMPORARILY DUCTED TO A RETURN/EXHAUST AIR GRILLE TO MAINTAIN 0.01"WG OF NEGATIVE AIR PRESSURE WITHIN ROOM DURING CONSTRUCTION.
- \langle 5 angle PROVIDE TRANSITION SIZED TO MATCH RETURN/EXHAUST GRILLE AND TRANSITION TO ROUND. PROVIDE FLEXIBLE DUCT FROM PORTABLE AIR SCRUBBER OUTLET TO RETURN/EXHAUST GRILLE.
- \langle 6 \rangle ALL CONSTRUCTION WASTE SHALL BE PUT INTO A PORTABLE CONTAINER AND SEALED TIGHTLY BEFORE EXITING
- A. CONTRACTOR SHALL OBTAIN PERMISSION FROM COR AND DEPARTMENT HEAD PRIOR TO STARTING WORK IN
- B. CONTRACTOR SHALL NOT BEGIN WORK IN CONSTRUCTION AREA UNTIL TEMPORARY BARRIERS ARE FULLY CONSTRUCTED OR HEPA-TENT IS FULLY ASSEMBLED.
- C. COVER AND PROTECT ANY EXISTING FIXTURES, FURNITURE OR EQUIPMENT IN WORK SPACE.
- UPON COMPLETION OF WORK CONTRACTOR SHALL: VACUUM WORK AREA WITH HEPA FILTERED VACCUMS, WET MOP FLOOR AND CLEAN ALL HARD SURFACES WITH CLEANER/DISINFECTANT, RESTORE HVAC SYSTEM TO ORIGINAL STATE AND REMOVE ALL CONSTRUCTION BARRIERS. CONTRACTOR SHALL ALSO NOTIFY COR AND DEPARTMENT HEAD OF COMPLETION OF WORK.
- SPACES THAT FALL UNDER THIS CATEGORY INCLUDE: CORRIDORS, WAITING AREAS, LOBBIES AND OPEN OFFICES.

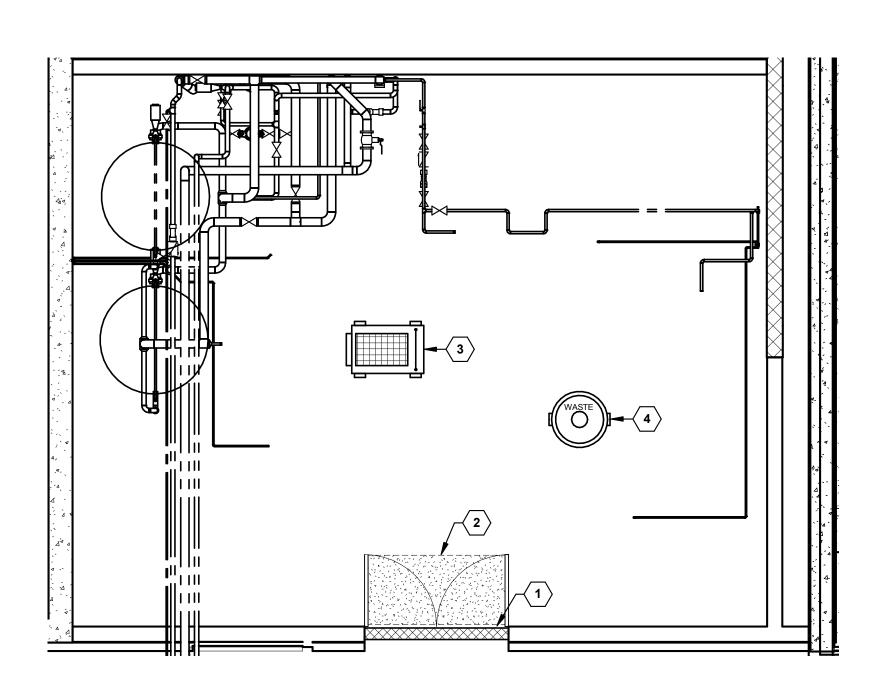


TYPICAL CLASS-2 HIGH TRAFFIC AREA NOTES

TYPICAL CLASS-2 MECHANICAL SPACE NOTES

- √ 1

 → CONTRACTOR SHALL SET UP NECESSARY CRITICAL BARRIER(S). CLOSE DOOR(S) AND TAPE FRAME(S) TO PREVENT AIR FROM ESCAPING WORK AREA.
- \langle **2** \rangle CONTRACTOR SHALL PROVIDE WALK-OFF MAT AT ENTRANCE(S) OF CONSTRUCTION AREA.
- (3) CONRACTOR SHALL UTILIZE AIR-SCRUBBER WITH HEPA FILTRATION TO CIRCULATE AND FILTER AIR WITHIN CONSTRUCTION AREA DURING WORK.
- 4 ALL CONSTRUCTION WASTE SHALL BE PUT INTO A PORTABLE CONTAINER AND SEALED TIGHTLY BEFORE EXITING
- A. CONTRACTOR SHALL OBTAIN PERMISSION FROM COR AND DEPARTMENT HEAD PRIOR TO STARTING WORK IN
- B. CONTRACTOR SHALL NOT BEGIN WORK IN CONSTRUCTION AREA UNTIL TEMPORARY BARRIERS ARE FULLY
- UPON COMPLETION OF WORK CONTRACTOR SHALL: VACUUM WORK AREA WITH HEPA FILTERED VACCUMS, WET MOP FLOORS AND CLEAN ALL HARD SURFACES WITH CLEANER/DISINFECTANT AND REMOVE ALL CONSTRUCTION BARRIERS. CONTRACTOR SHALL ALSO NOTIFY COR AND DEPARTMENT HEAD OF COMPLETION OF WORK.
- SPACES THAT FALL UNDER THIS CATEGORY INCLUDE: MECHANICAL ROOMS, AIR HANDLING UNIT PENTHOUSES AND THE ENERGY CENTER.



TYPICAL CLASS-2 MECHANICAL SPACE NOTES 3

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BID ISSUE 4/29/2016 Date

16

VA FORM 08-6231. OCT 1978



ARCHITECT:

Drawing Title
INFECTION CONTROL DETAILS AND
NOTES

Approved:

	Project Title
)	IMPROVE WATER
	SYSTEM TO PREVENT
	LEGIONELLA

4/29/2016

VAMC - WADE PARK

Checked

DAD

Drawn

JMC

541-16-101
Building Number
MAIN CAMPUS
Drawing Number

P-7

Project Number

Office of **Facilities** Management

Department of Veterans Affairs

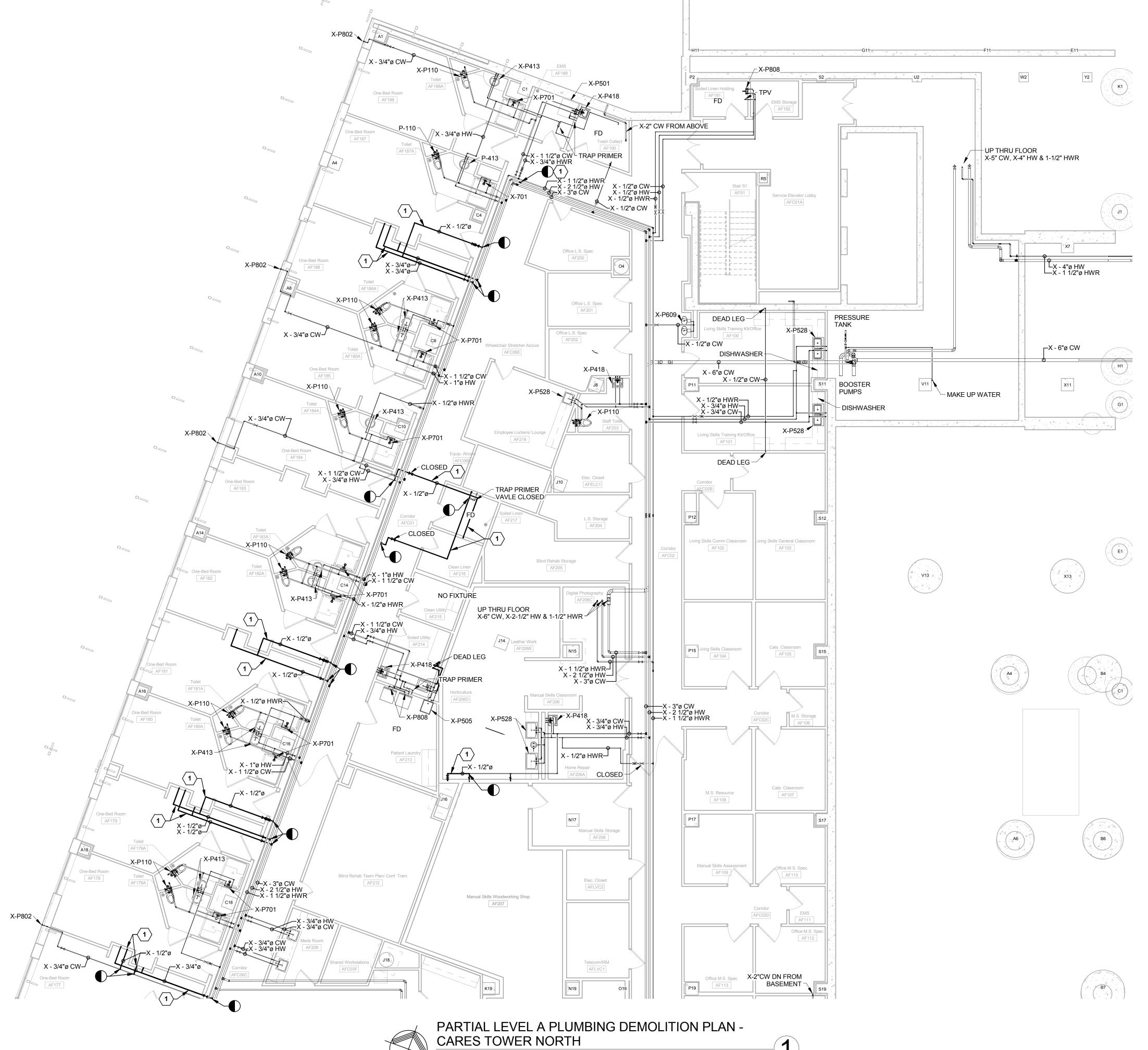


FIRST SHIFT WORK NOTE

ALL WORK SHOWN ON THIS FLOOR PLAN SHALL BE COMPLETED DURING FIRST SHIFT (7AM-4PM). IN THE CASE OF A SCHEDULING CONFLICT, THE CONTRACTOR SHALL NOTIFY THE COR OF THE AREA WHERE WORK IS BEING STOPPED AND IDENTIFY THE FLOAT AREA THEY PLAN TO WORK IN FOR THE DAY.

DEAD LEG DEMOLITION CODED NOTE

CUT AND CAP EXISTING DEAD LEG PIPING AT LIMIT OF DEMOLITION SYMBOL. CONTRACTOR SHALL CAP PIPING, WITHIN TWO PIPE DIAMETERS, OFF OF THE MAIN IT IS CONNECTED TO. CONTRACTOR SHALL DRAIN, CAP AND LABEL REMAINING DEAD LEG PIPING AND ABANDON IN CEILING. BRIGHT YELLOW LABELS SHALL BE PLACED AT BOTH ENDS OF EACH ABANDONED PIPE. LABEL SHALL READ "ABANDONED PIPING". CONTRACTOR SHALL REMOVE AND REPLACE CEILINGS AS NECESSARY TO ACCOMPLISH WORK. CONTRACTOR SHALL VERIFY DEAD LEG IS NOT ACTIVE PRIOR TO REMOVING SECTION OF PIPE.



FULLY SPRINKLERED

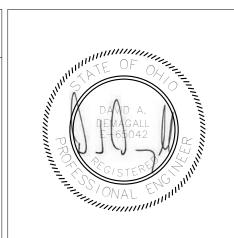
CONSULTANTS:

FREDRICK, FREDRICK & HELLER
ENGINEERS, INC.
672 EAST ROYALTON ROAD
BROADVIEW HITS, OHIO 44147
TEL. (440) 546-9699
FAX: (440) 546-9699
FAX: (440) 546-9699

Revisions:
Date

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VA FORM 08-6231, OCT 1978

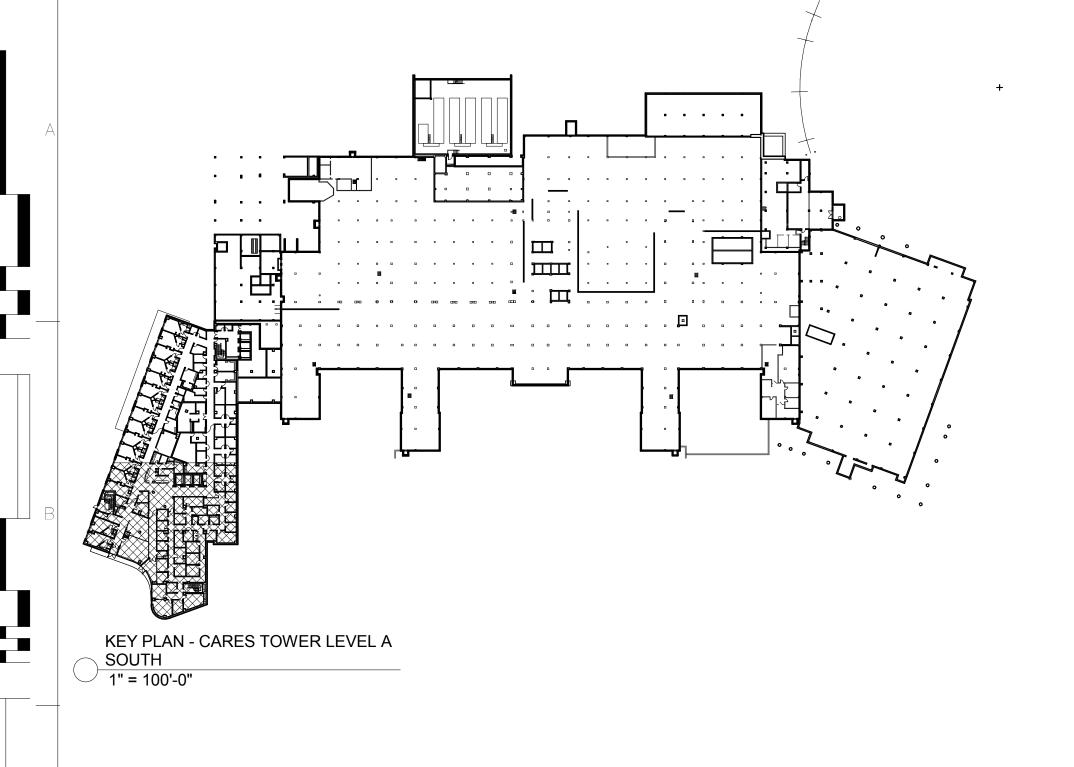


ARCHITECT:	PARTIAL LEVEL A PLUMBING DEMOLITION PLAN - CARES TOWER NORTH
	Approved:

Title TIAL LEVEL A PLUMBING	Project Title IMPROVE	WATER		Project Number 541-16-101
OLITION PLAN - CARES TOWER TH	SYSTEM T LEGIONEL	Building Number MAIN CAMPUS		
d:	Location VAMC - V	VADE PAF	RK	Drawing Number
	Date 4/29/2016	Checked DAD	Drawn JMC	SBD-CTN

Office of Facilities Management

Department of Veterans Affairs



FIRST SHIFT WORK NOTE ALL WORK SHOWN ON THIS FLOOR PLAN SHALL BE COMPLETED DURING FIRST SHIFT (7AM-4PM). IN THE CASE OF A SCHEDULING CONFLICT, THE CONTRACTOR SHALL NOTIFY THE COR OF THE AREA WHERE WORK IS BEING STOPPED

DEAD LEG DEMOLITION CODED NOTE

AND IDENTIFY THE FLOAT AREA THEY PLAN TO WORK IN FOR THE DAY.

(1) CUT AND CAP EXISTING DEAD LEG PIPING AT LIMIT OF DEMOLITION SYMBOL. CONTRACTOR SHALL CAP PIPING, WITHIN TWO PIPE DIAMETERS, OFF OF THE MAIN IT IS CONNECTED TO. CONTRACTOR SHALL DRAIN, CAP AND LABEL REMAINING DEAD LEG PIPING AND ABANDON IN CEILING. BRIGHT YELLOW LABELS SHALL BE PLACED AT BOTH ENDS OF EACH ABANDONED PIPE. LABEL SHALL READ "ABANDONED PIPING". CONTRACTOR SHALL REMOVE AND REPLACE CEILINGS AS NECESSARY TO ACCOMPLISH WORK. CONTRACTOR SHALL VERIFY DEAD LEG IS NOT ACTIVE PRIOR TO REMOVING SECTION OF PIPE.

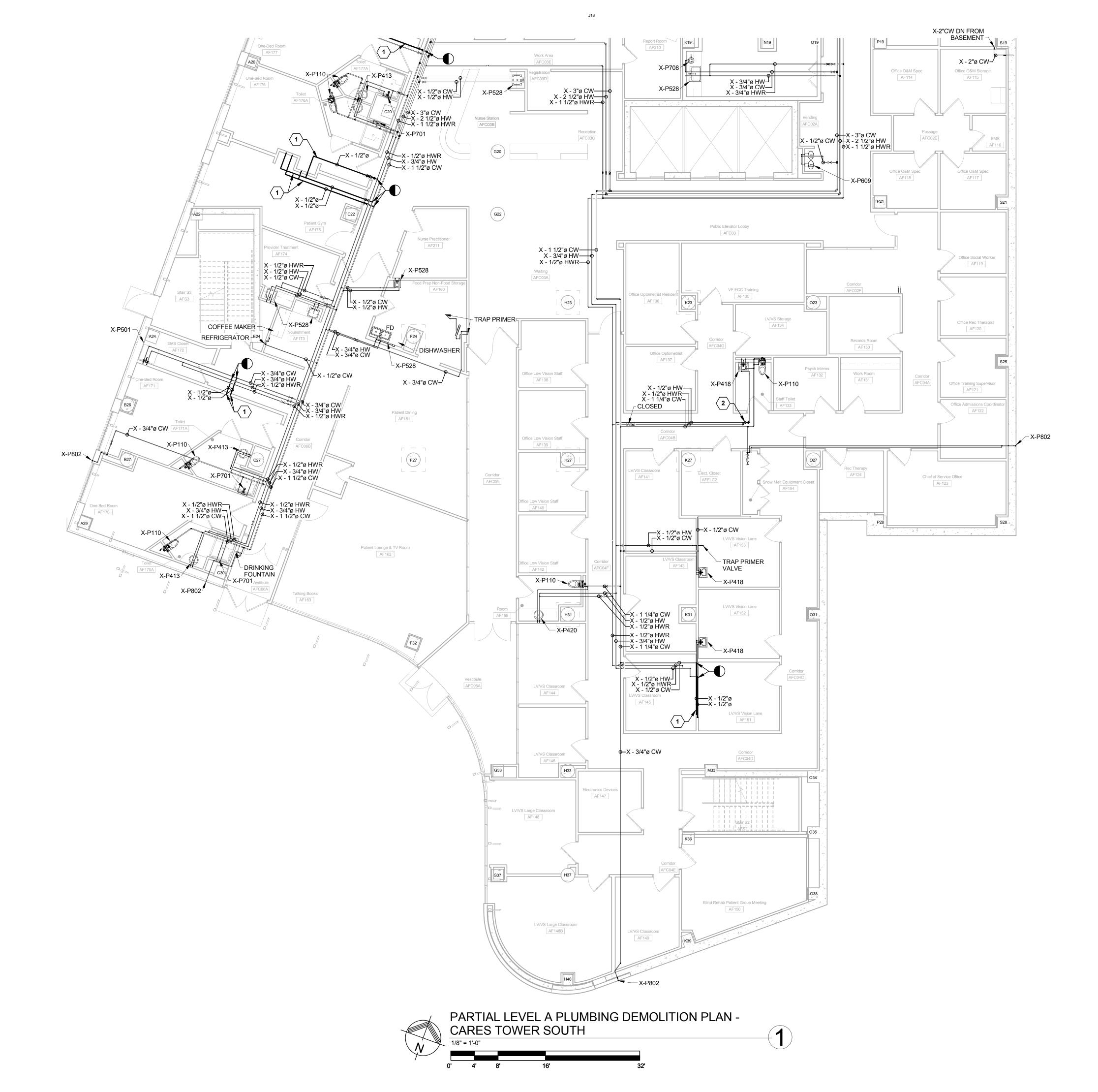
DEMOLITION CODED NOTES

REDRICK, FREDRICK & HELLER

ENGINEERS, INC.

672 EAST ROYALTON ROAD BROADVIEW HTS., OHIO 44147 TEL. (440) 546-9696 FAX: (440) 546-9699

REMOVE SECTIONS OF EXISTING HOT WATER AND HOT WATER RETURN PIPING TO ALLOW FOR EXTENSION IN NEW PHASE.



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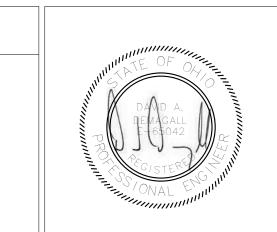
CONSULTANTS:

4/29/2016 Date

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BID ISSUE

VA FORM 08-6231, OCT 1978

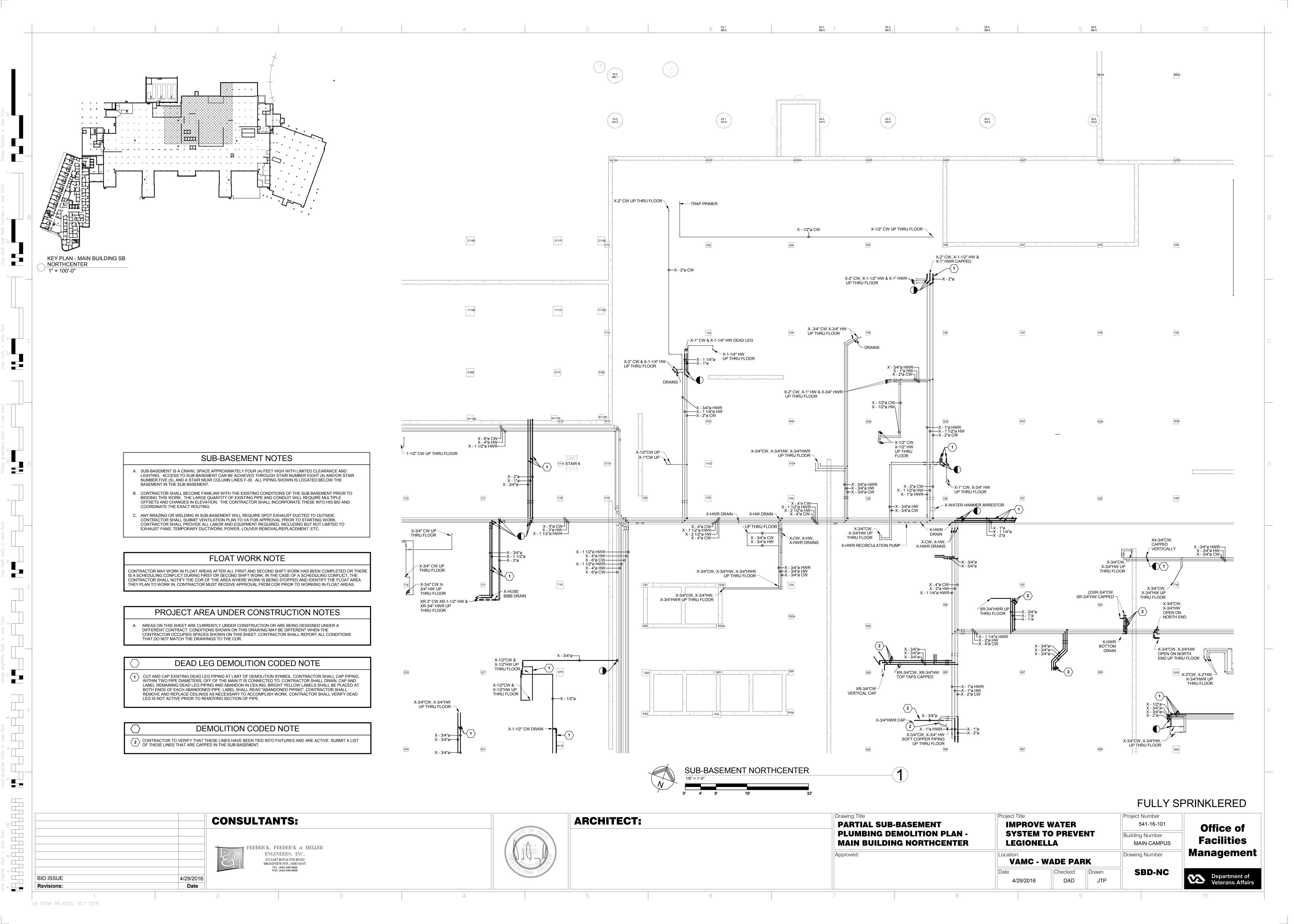


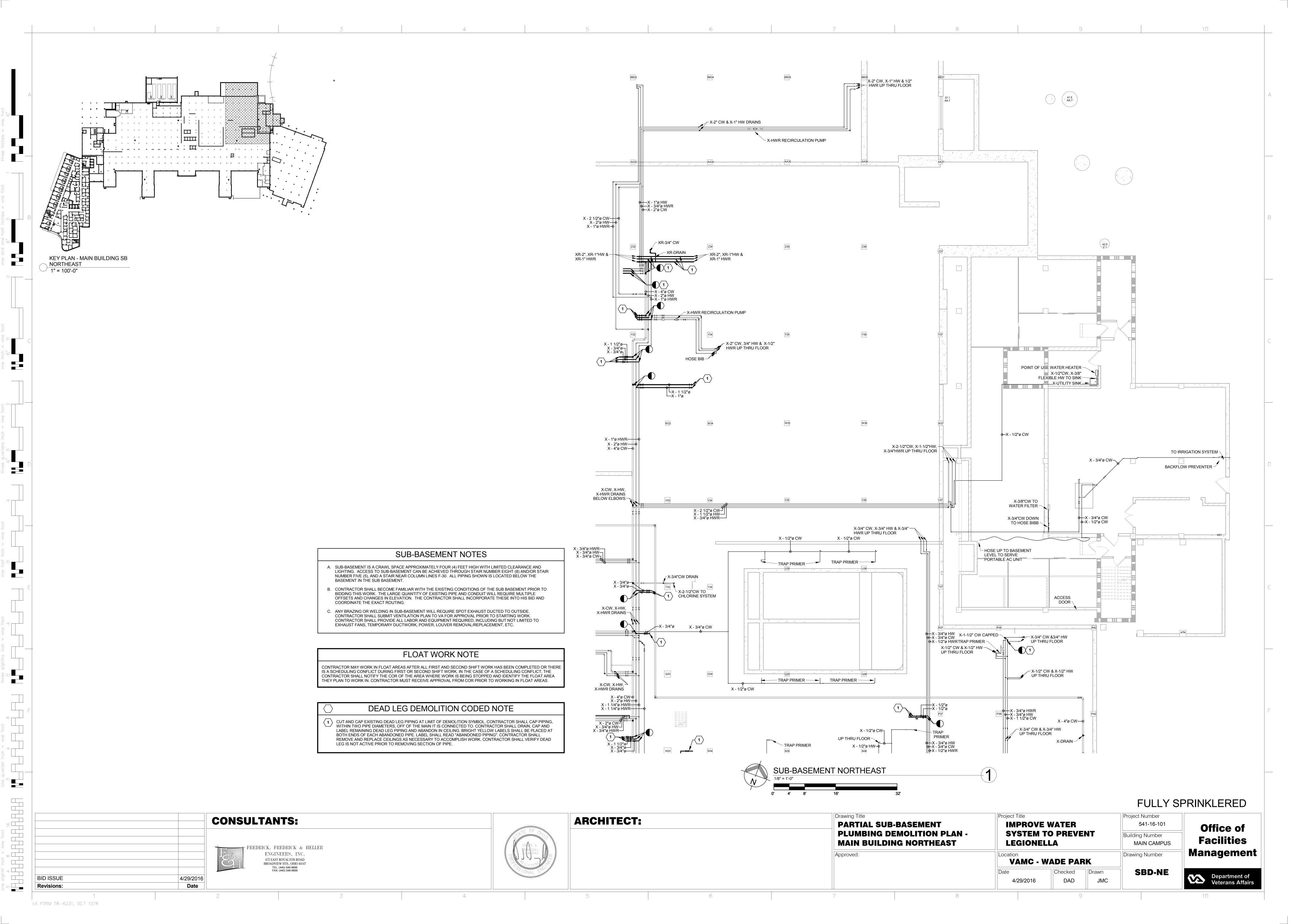
ADCHITECT.	Drawing Title
ARCHITECT:	PARTIAL LEVEL A PLUMBING
	DEMOLITION PLAN - CARES TOWER
	SOUTH
	Approved:

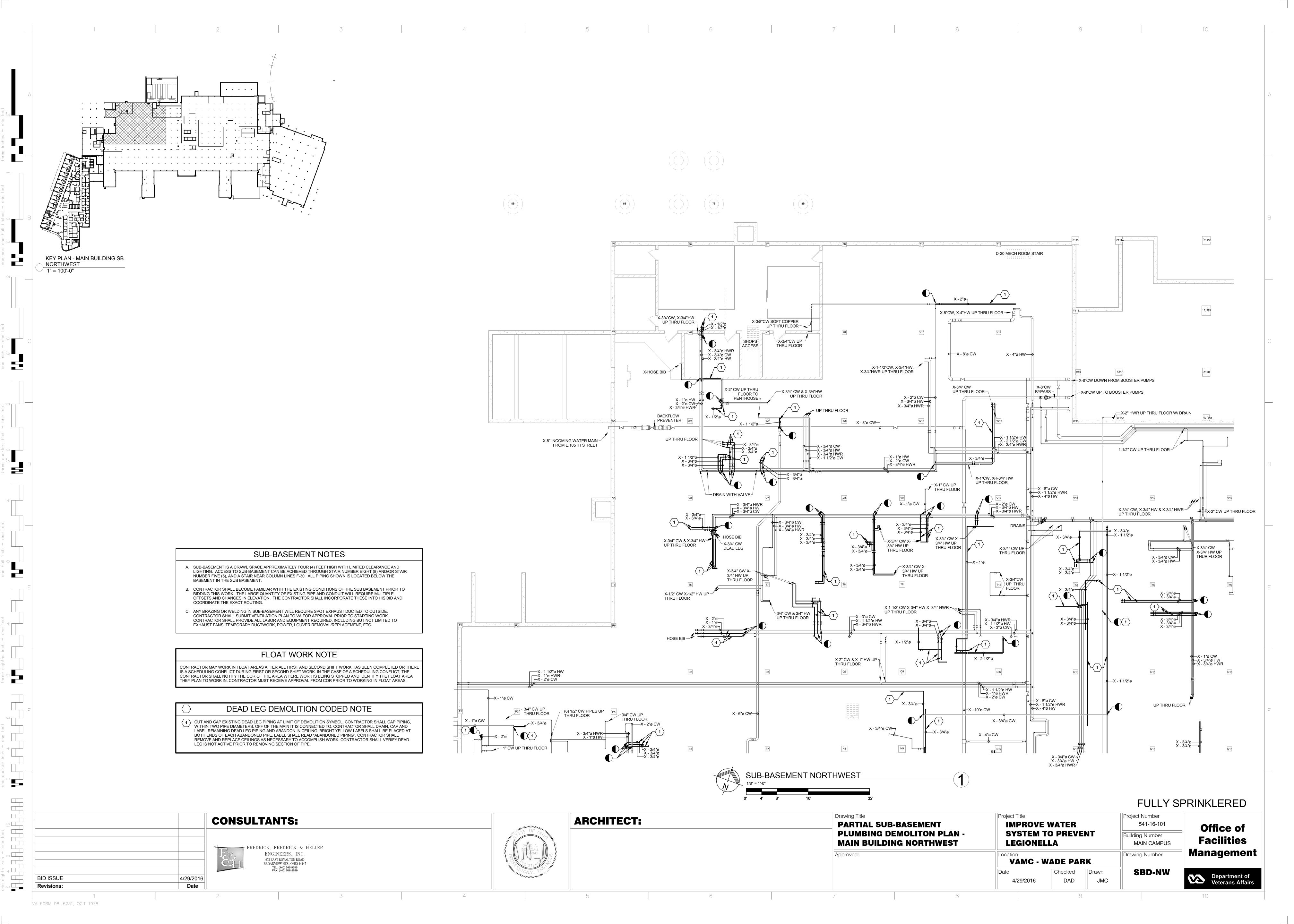
Title TIAL LEVEL A PLUMBING	Project Title IMPROVE WATER SYSTEM TO PREVENT LEGIONELLA			Project Number 541-16-101
IOLITION PLAN - CARES TOWER TH				Building Number MAIN CAMPUS
d:	Location VAMC - V	Drawing Number		
	Date 4/29/2016	Checked DAD	Drawn JMC	SBD-CTS

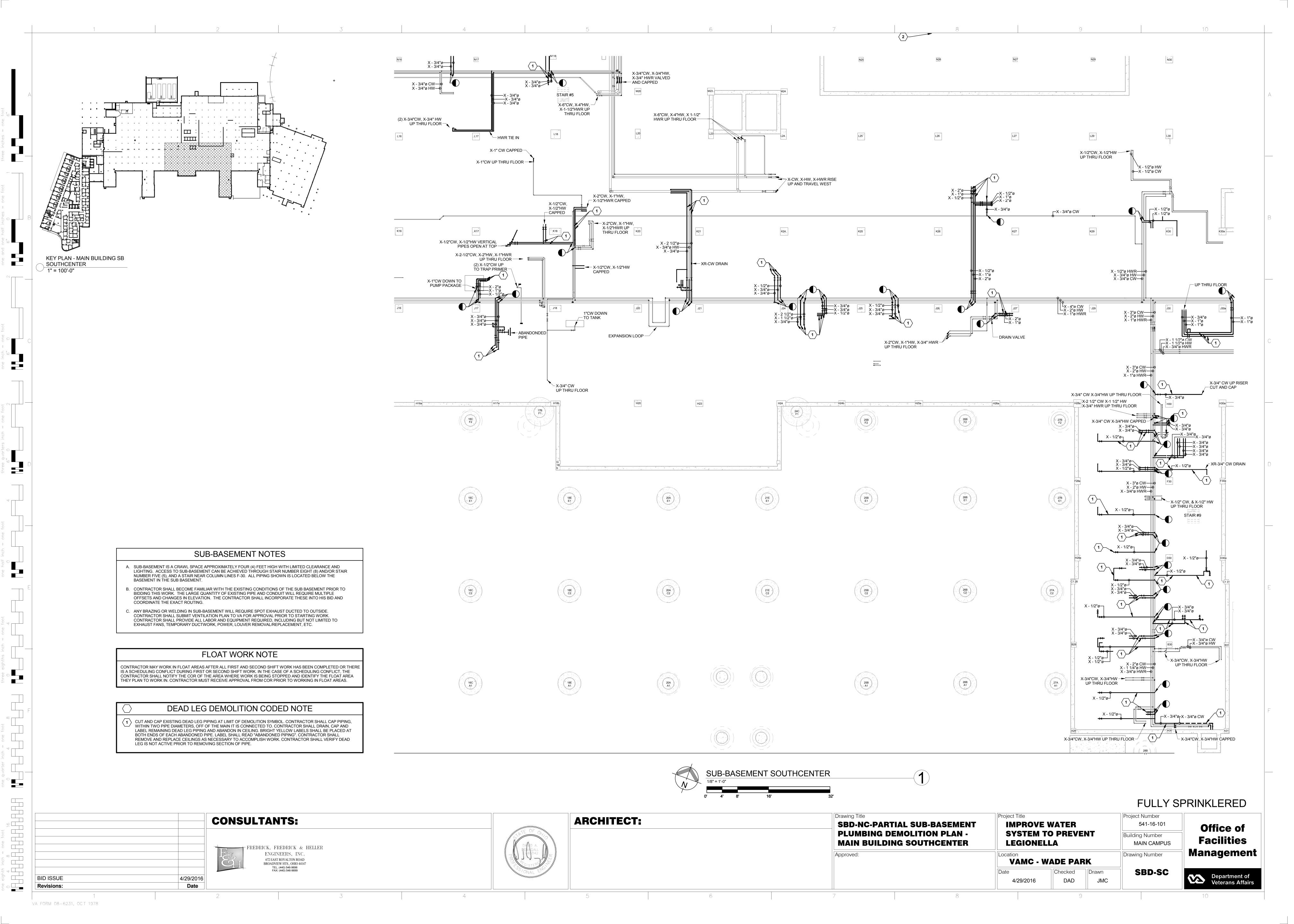
Office of **Facilities** Management

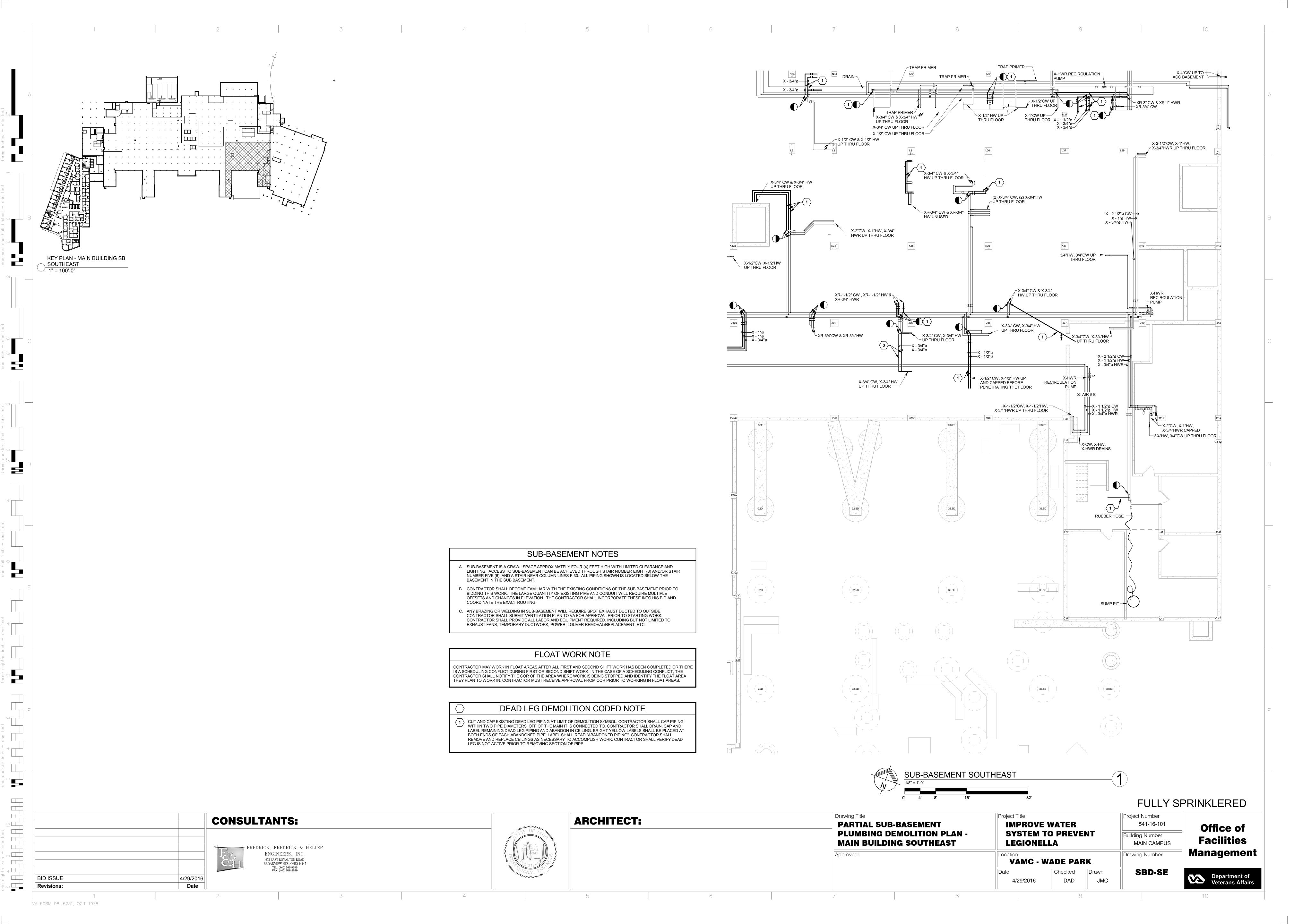


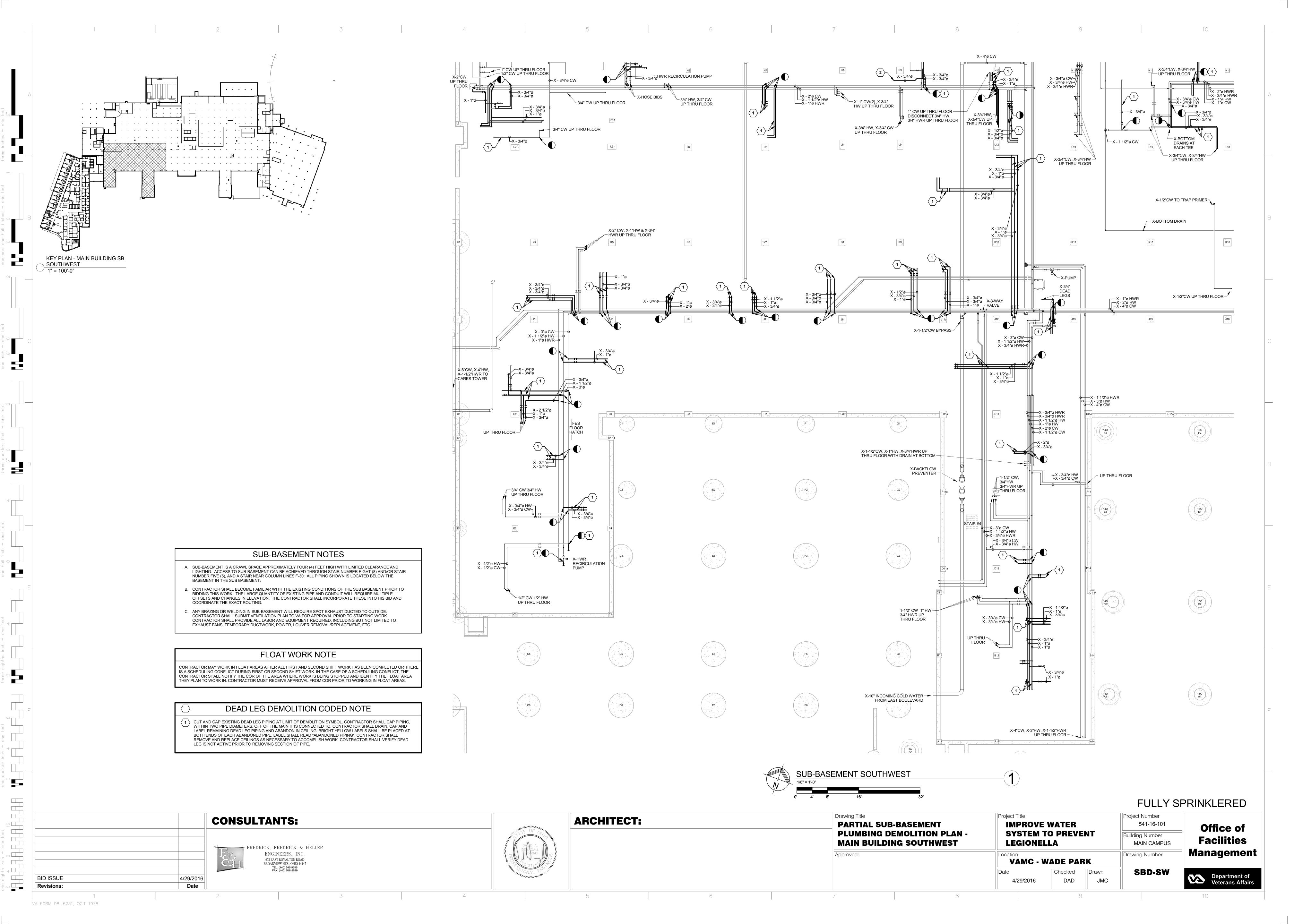


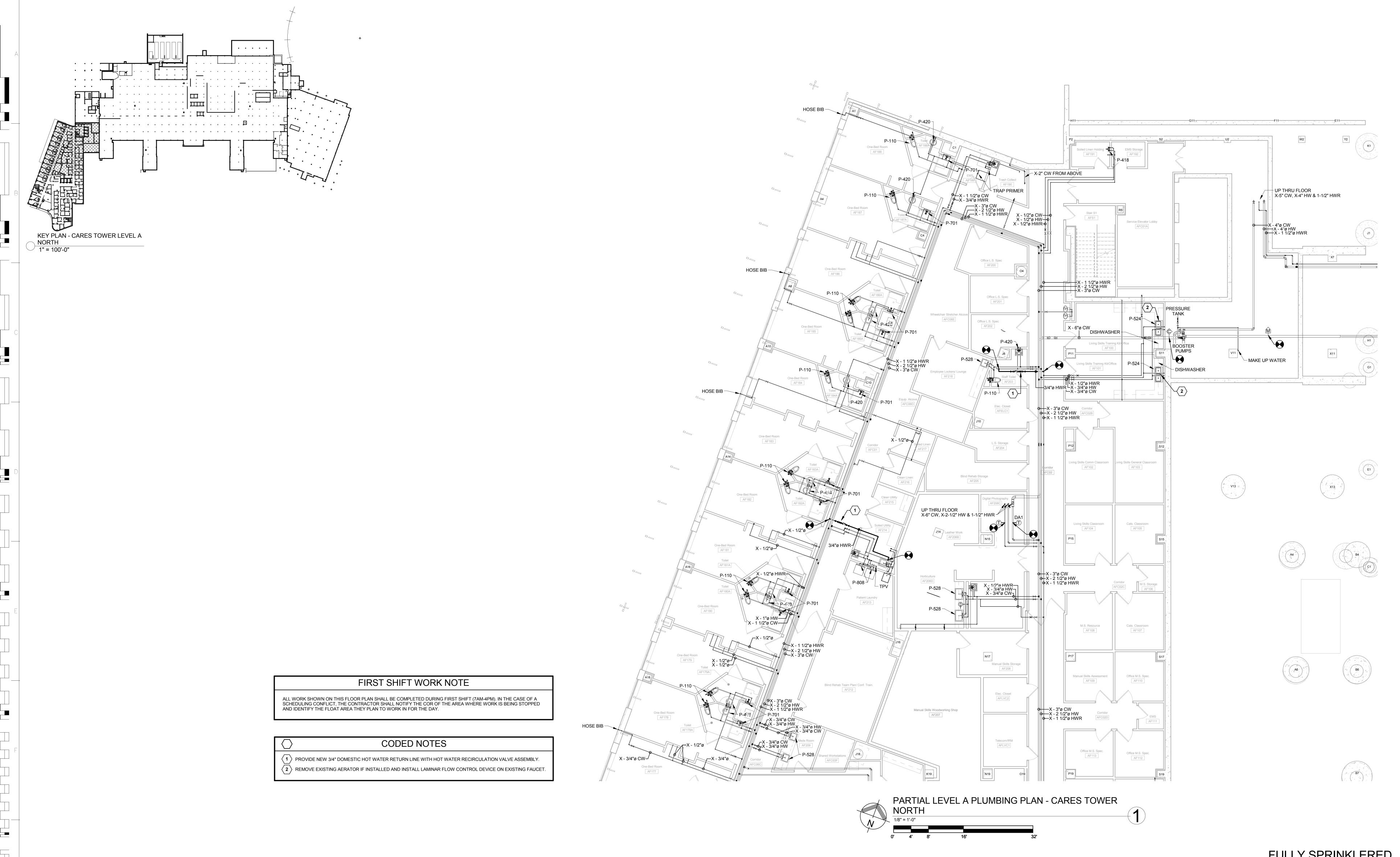












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Office of

Facilities

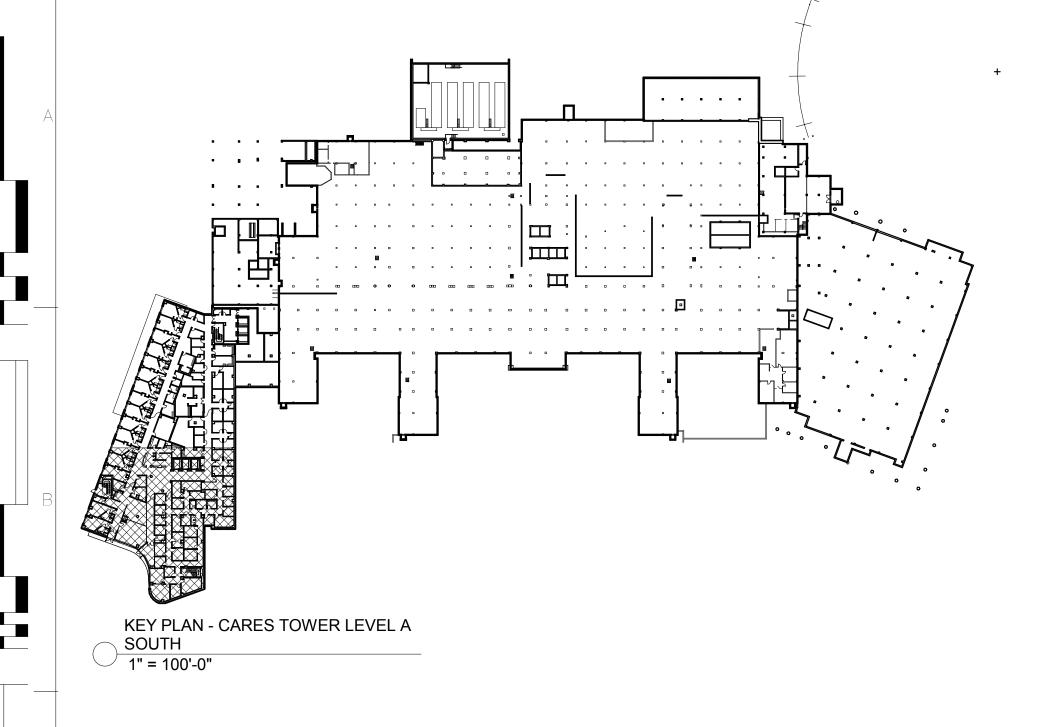
Management

Department of Veterans Affairs

541-16-101

SB-CTN

16 Drawing Title Project Title Project Number **CONSULTANTS: ARCHITECT: IMPROVE WATER** PARTIAL LEVEL A PLUMBING PLAN **SYSTEM TO PREVENT** - CARES TOWER NORTH Building Number **LEGIONELLA** MAIN CAMPUS FREDRICK, FREDRICK & HELLER Drawing Number ENGINEERS, INC. Approved: 672 EAST ROYALTON ROAD BROADVIEW HTS., OHIO 44147 TEL. (440) 546-9696 FAX: (440) 546-9699 **VAMC - WADE PARK** Drawn Checked BID ISSUE 4/29/2016 DAD JMC 4/29/2016 Date



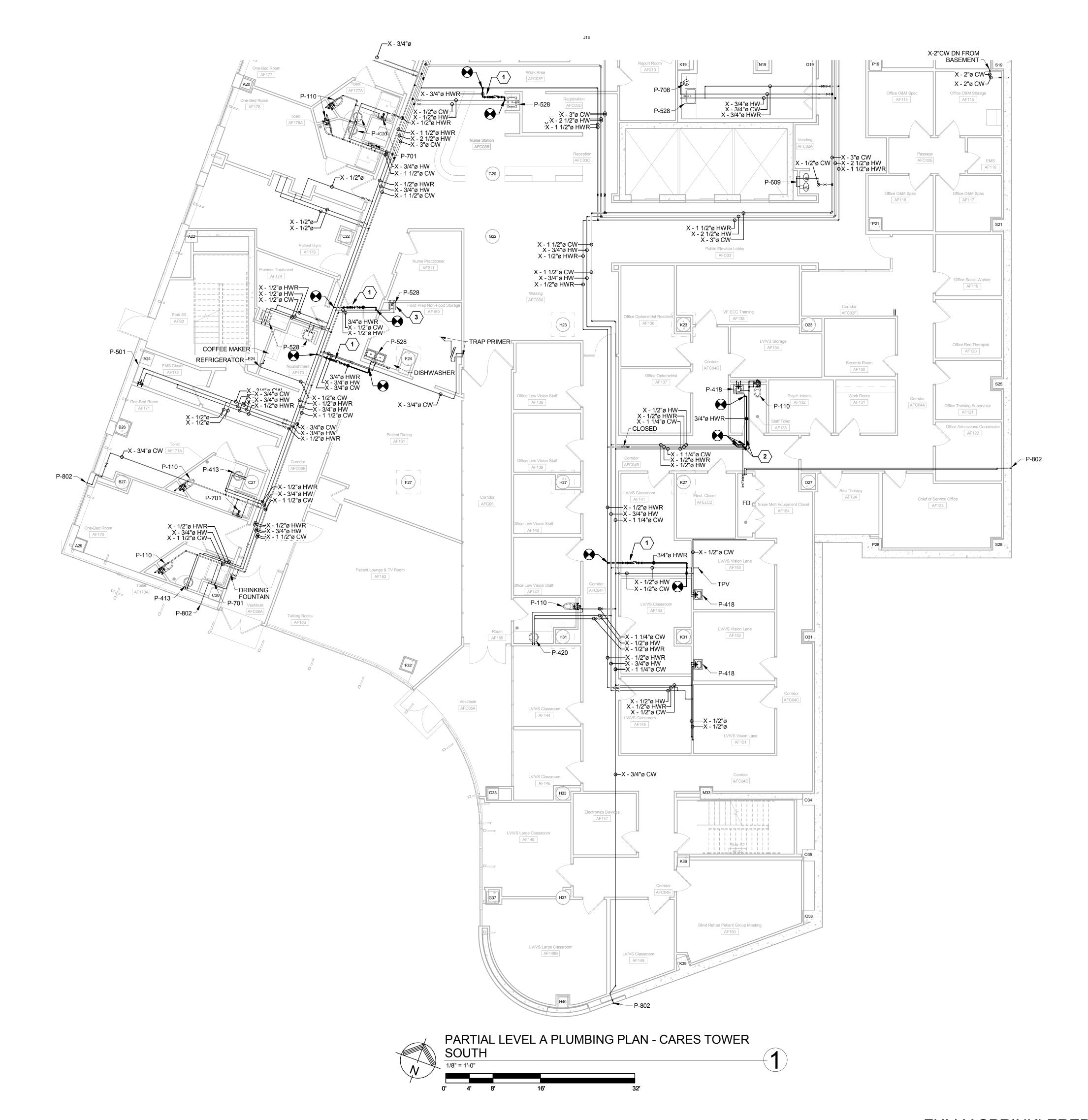
VA FORM 08-6231, OCT 1978



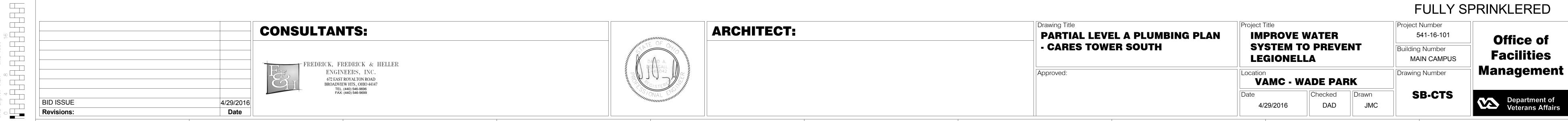
ALL WORK SHOWN ON THIS FLOOR PLAN SHALL BE COMPLETED DURING FIRST SHIFT (7AM-4PM). IN THE CASE OF A SCHEDULING CONFLICT, THE CONTRACTOR SHALL NOTIFY THE COR OF THE AREA WHÈRE WORK IS BEING STOPPED AND IDENTIFY THE FLOAT AREA THEY PLAN TO WORK IN FOR THE DAY.

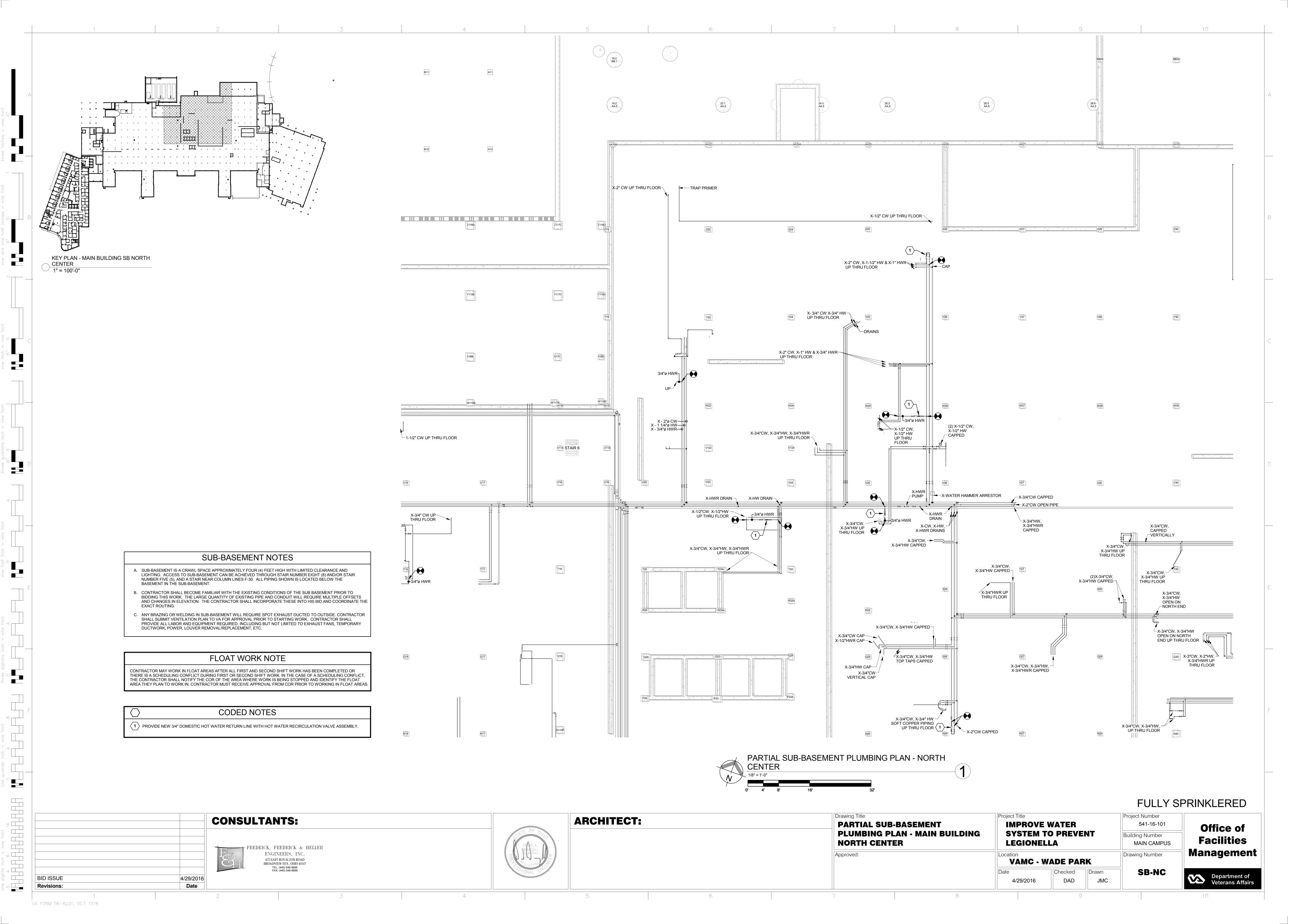
CODED NOTES

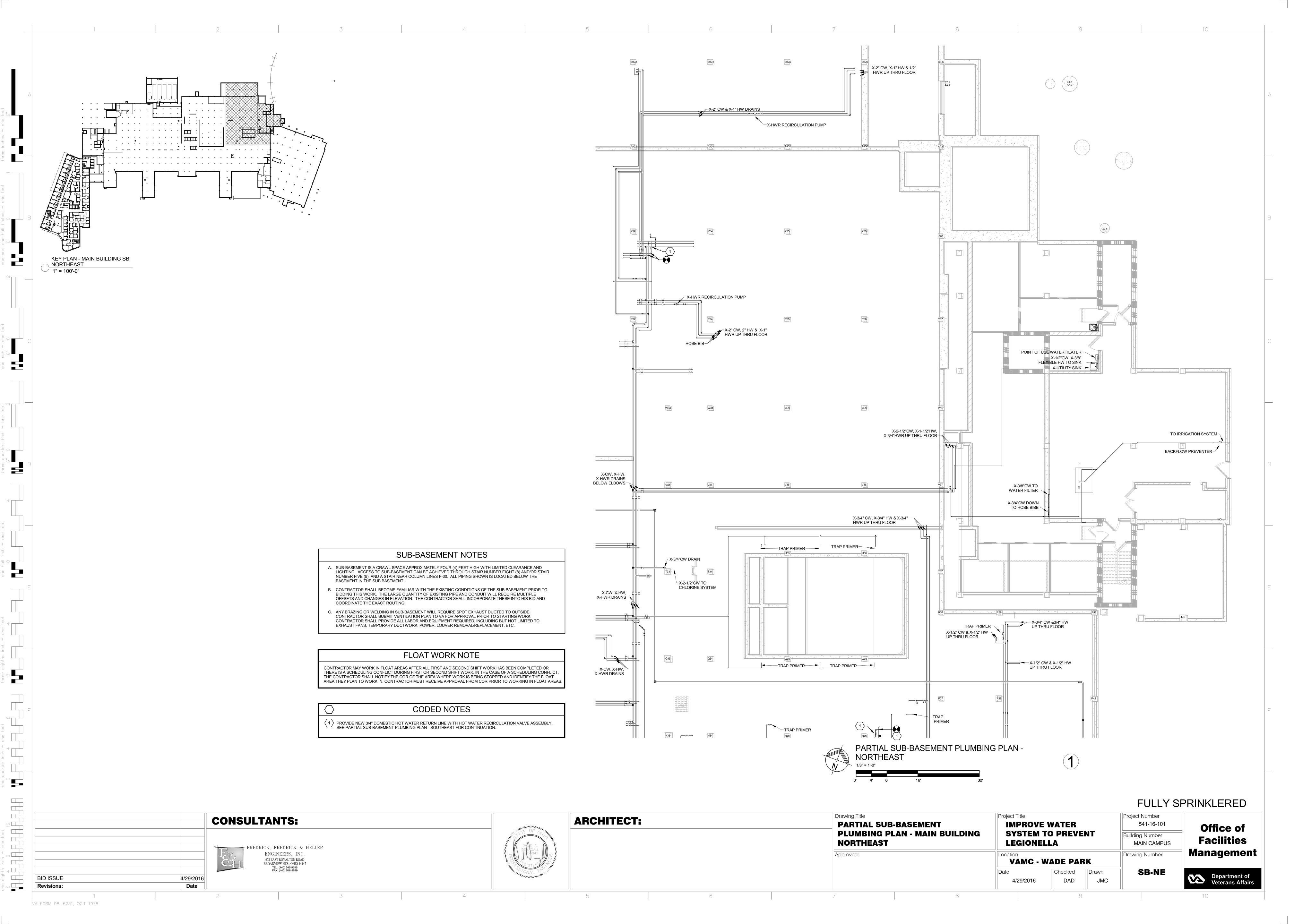
- \langle 1 \rangle PROVIDE NEW 3/4" DOMESTIC HOT WATER RETURN LINE WITH HOT WATER RECIRCULATION VALVE ASSEMBLY.
- \langle 2 \rangle EXTEND SECTIONS OF DOMESTIC HOT WATER AND HOT WATER RETURN PIPING TO LOCATIONS SHOWN ON PLAN.
- \langle 3 \rangle REMOVE EXISTING AERATOR IF INSTALLED AND INSTALL LAMINAR FLOW CONTROL DEVICE ON EXISTING FAUCET.

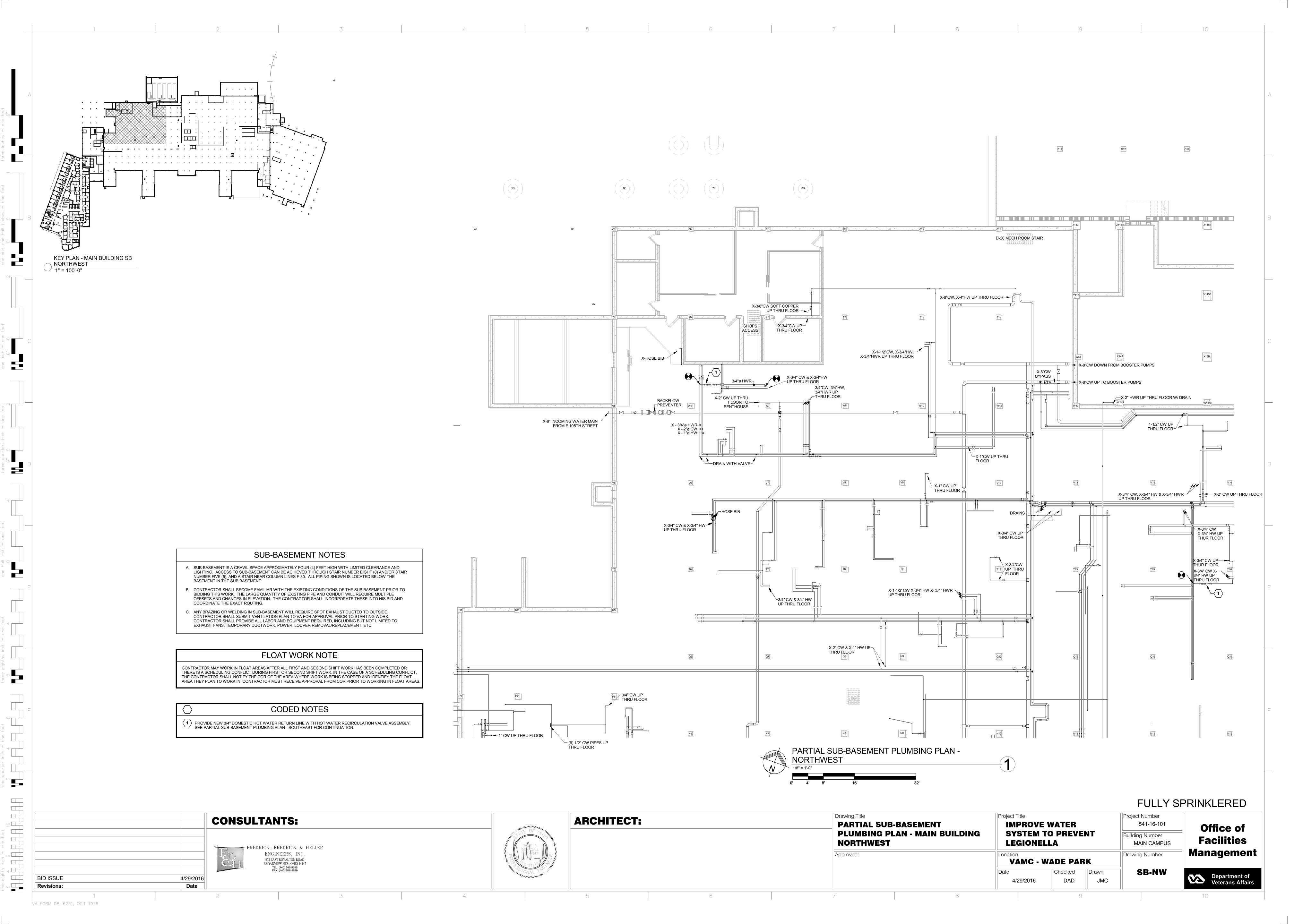


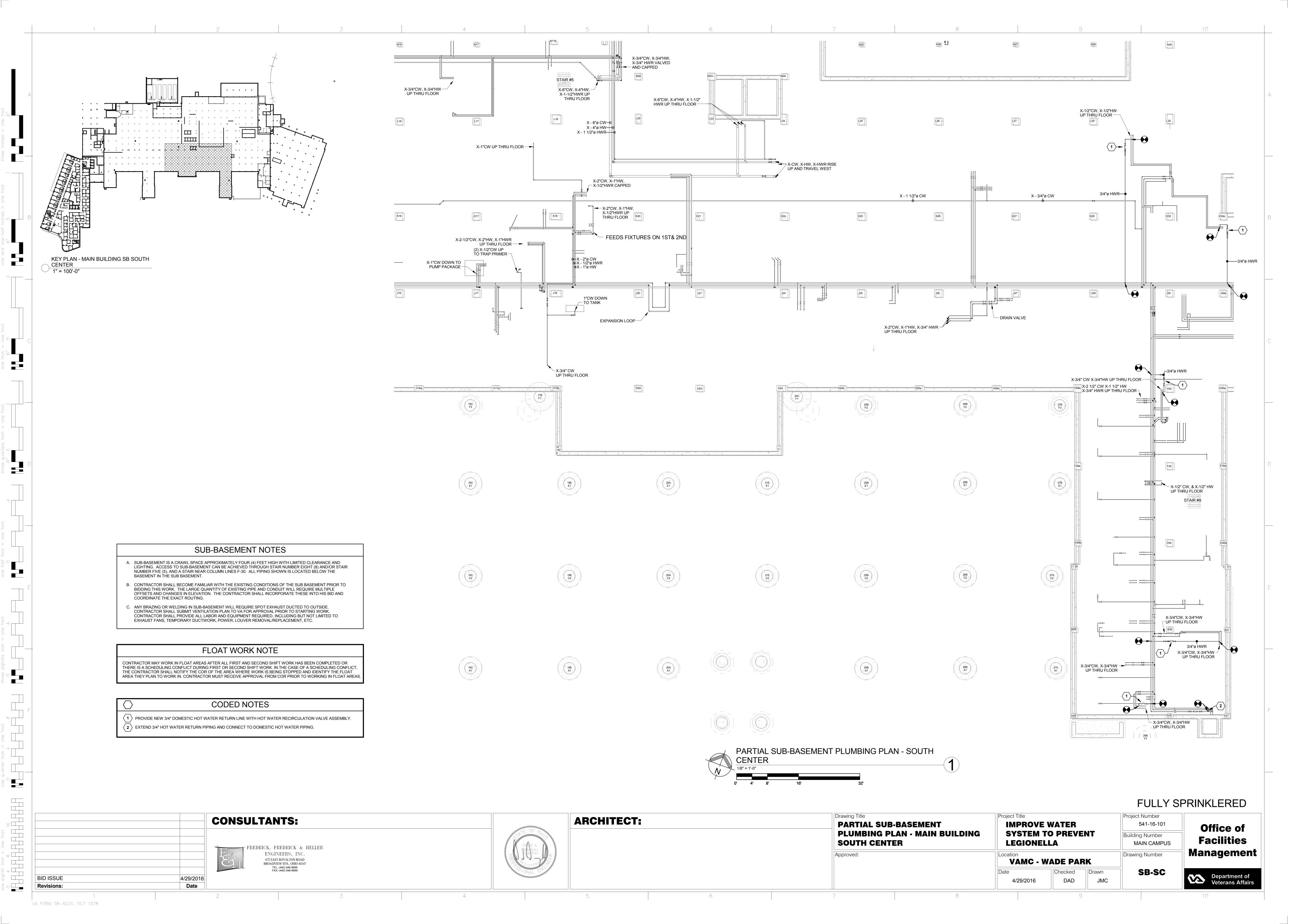
FULLY SPRINKLERED

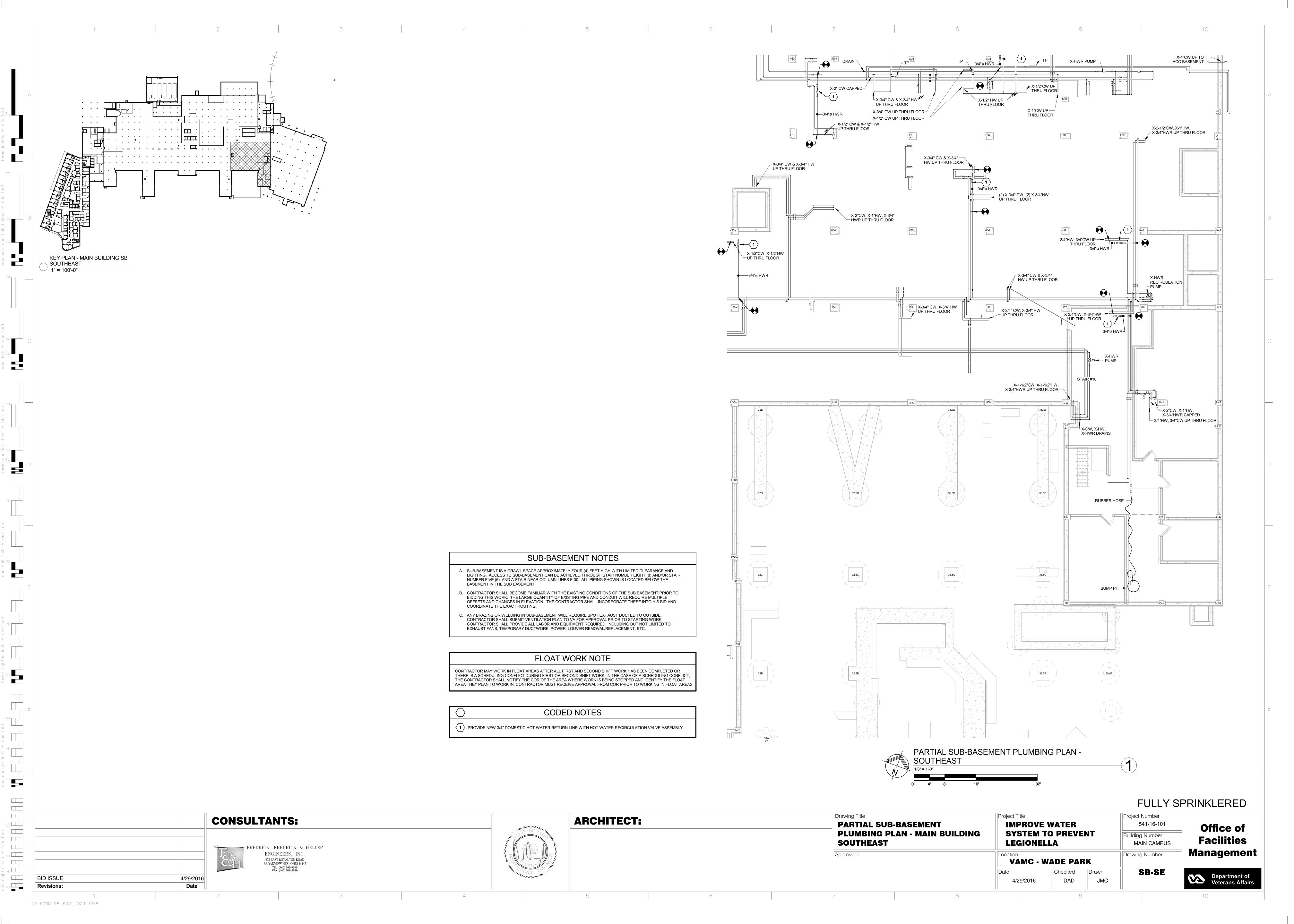


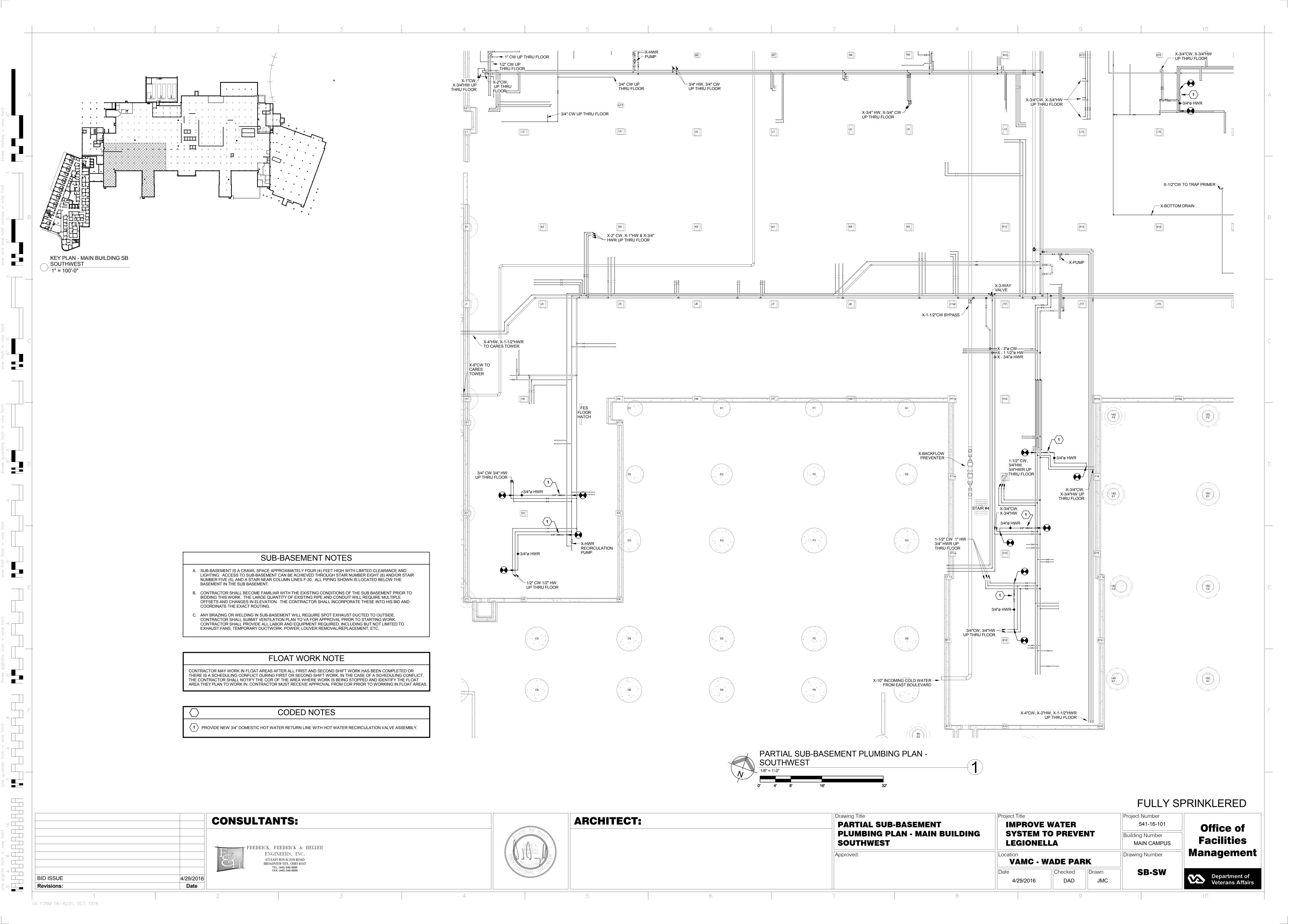


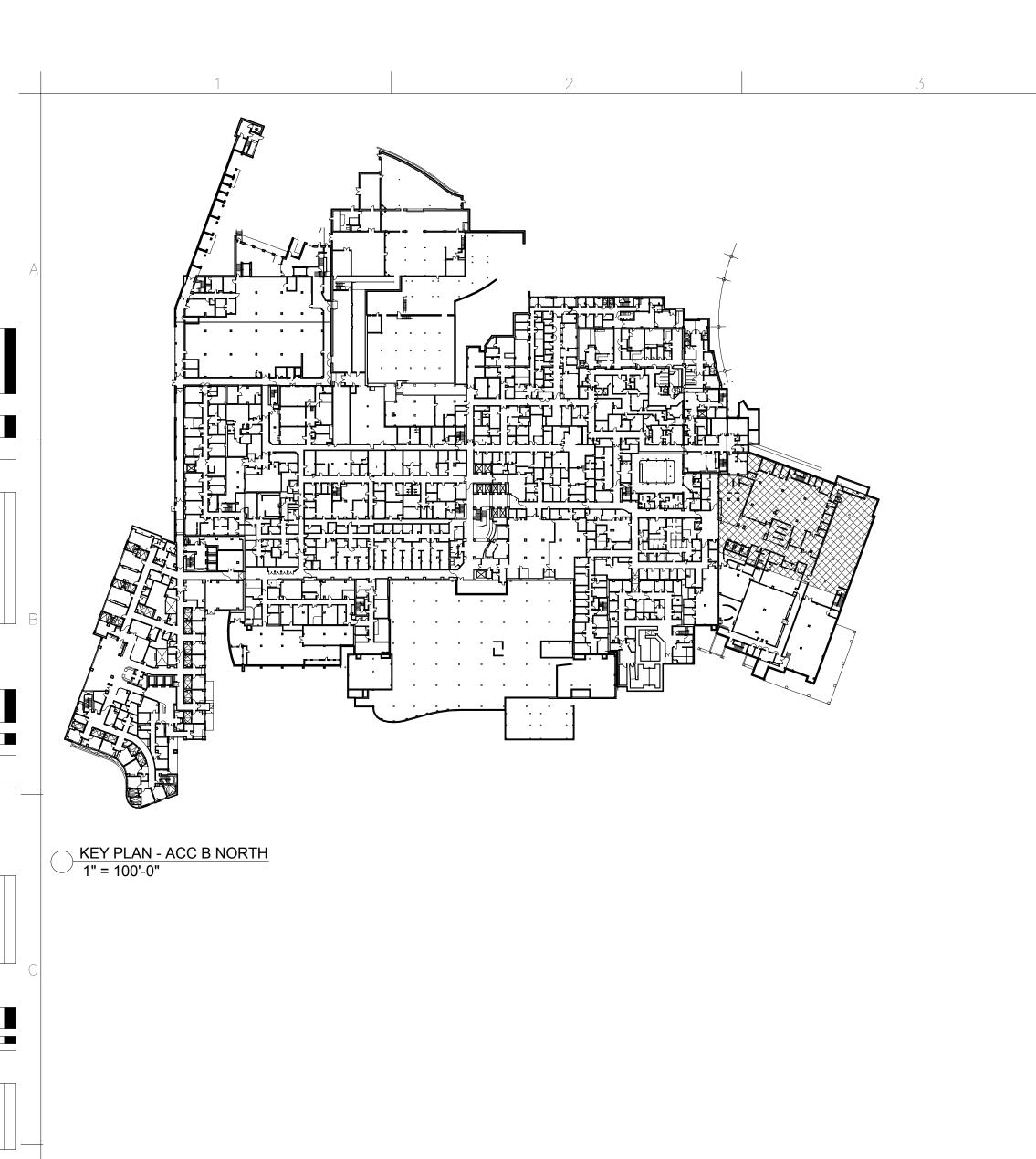












SECOND SHIFT WORK NOTE

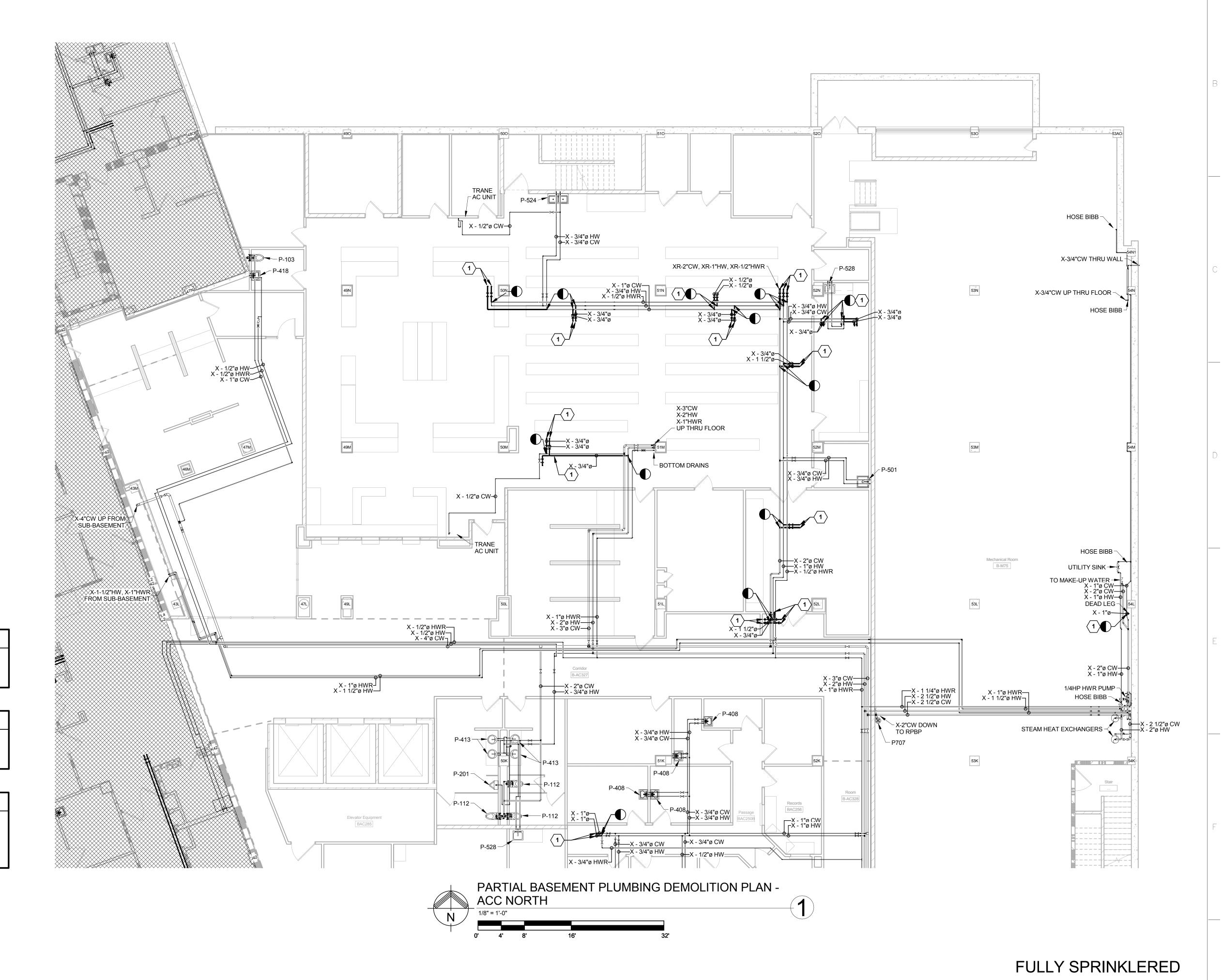
ALL WORK SHOWN ON THIS FLOOR PLAN SHALL BE COMPLETED AFTER THE DEPARTMENT HAS COMPLETED WORK FOR THE DAY. THE STARTING TIME WILL VARY BY DEPARTMENT AND MUST BE COORDINATED WITH THE COR. IN THE CASE OF A SCHEDULING CONFLICT, THE CONTRACTOR SHALL NOTIFY THE COR OF THE AREA WHERE WORK IS BEING STOPPED AND IDENTIFY THE FLOAT AREA THEY PLAN TO WORK IN FOR THE NIGHT.

PROJECT AREA UNDER CONSTRUCTION NOTES

A. AREAS ON THIS SHEET ARE CURRENTLY UNDER CONSTRUCTION OR ARE BEING DESIGNED UNDER A DIFFERENT CONTRACT. CONDITIONS SHOWN ON THIS DRAWING MAY BE DIFFERENT WHEN THE CONTRACTOR OCCUPIES SPACES SHOWN ON THIS SHEET. CONTRACTOR SHALL REPORT ALL CONDITIONS THAT DO NOT MATCH THE DRAWINGS TO THE COR

DEAD LEG DEMOLITION CODED NOTE

CUT AND CAP EXISTING DEAD LEG PIPING AT LIMIT OF DEMOLITION SYMBOL. CONTRACTOR SHALL CAP PIPING, WITHIN TWO PIPE DIAMETERS, OFF OF THE MAIN IT IS CONNECTED TO. CONTRACTOR SHALL DRAIN, CAP AND LABEL REMAINING DEAD LEG PIPING AND ABANDON IN CEILING. BRIGHT YELLOW LABELS SHALL BE PLACED AT BOTH ENDS OF EACH ABANDONED PIPE. LABEL SHALL READ "ABANDONED PIPING". CONTRACTOR SHALL REMOVE AND REPLACE CEILINGS AS NECESSARY TO ACCOMPLISH WORK. CONTRACTOR SHALL VERIFY DEAD LEG IS NOT ACTIVE PRIOR TO REMOVING SECTION OF PIPE.



CONSULTANTS:

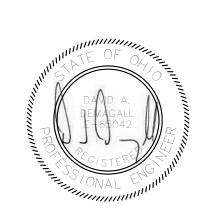
4/29/2016 **Date**

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ARCHITECT:	PARTIAL BASEMENT PLUMBING DEMOLITION PLAN - ACC NORTH
	Approved:

g Title RTIAL BASEMENT PLUMBING		IMPROVE WATER		
MOLITION PLAN - ACC NORTH	SYSTEM TO PREVENT LEGIONELLA			Building Number MAIN CAMPUS
ed:	Location VAMC - WADE PARK Drawing Number			
	Date 4/29/2016	Checked DAD	Drawn JMC	BD-ACCN

Office of Facilities Management

Department of Veterans Affairs